



Maze size: 32x32
Start point: (0, 0)
End point: (31, 31)
Average of 1000 path lengths for each difficulty

| Average path length to end | | | | | | |
|----------------------------|----------------|-----------------|-------------------|-------------------|-----------------|----------------|
| Difficulty | random.seed(1) | random.seed(42) | random.seed(1997) | random.seed(2016) | random.seed(12) | random.seed(8) |
| 0 | 1611.0 | 1777.0 | 1519 | 1557 | 1557 | 1531 |
| 1 | 1611.0 | 1777.0 | 1519 | 1557 | 1557 | 1531 |
| 2 | 1609.464 | 1777.0 | 1519 | 1569.518 | 1569.518 | 1528.292 |
| 3 | 1609.668 | 1777.0 | 1519 | 1569.64 | 1569.64 | 1528.33 |
| 4 | 1615.066 | 1777.0 | 1502.536 | 1569.936 | 1569.936 | 1528.032 |
| 5 | 1618.372 | 1777.0 | 1496.096 | 1569.854 | 1569.854 | 1528.204 |
| 6 | 1618.78 | 1777.0 | 1498 | 1569.672 | 1569.672 | 1528.2 |
| 7 | 1620.918 | 1775.956 | 1479.4 | 1569.672 | 1569.672 | 1528.238 |
| 8 | 1620.744 | 1775.812 | 1481.112 | 1569.634 | 1569.634 | 1528.27 |
| 9 | 1622.134 | 1775.17 | 1474.376 | 1569.494 | 1569.494 | 1528.218 |
| 10 | 1622.37 | 1729.086 | 1468.184 | 1563.578 | 1563.578 | 1524.846 |
| 11 | 1622.652 | 1732.896 | 1472.448 | 1563.518 | 1563.518 | 1525.28 |
| 12 | 1625.602 | 1681.9 | 1465.536 | 1562.848 | 1562.848 | 1522.972 |
| 13 | 1625.612 | 1679.218 | 1463.424 | 1562.814 | 1562.814 | 1522.534 |
| 14 | 1626.598 | 1646.206 | 1462.484 | 1571.114 | 1571.114 | 1521.226 |
| 15 | 1616.616 | 1610.008 | 1464.934 | 1569.06 | 1569.06 | 1519.27 |
| 16 | 1616.428 | 1624.65 | 1462.832 | 1571.178 | 1571.178 | 1519.106 |
| 17 | 1607.58 | 1597.57 | 1464.458 | 1562.838 | 1562.838 | 1517.018 |
| 18 | 1605.5 | 1597.12 | 1463.954 | 1560.414 | 1560.414 | 1516.178 |
| 19 | 1603.164 | 1566.678 | 1464.35 | 1529.056 | 1529.056 | 1513.208 |
| 20 | 1594.162 | 1555.876 | 1463.048 | 1500.77 | 1500.77 | 1511.666 |
| 21 | 1596.13 | 1567.796 | 1464.004 | 1501.646 | 1501.646 | 1511.242 |
| 22 | 1587.292 | 1538.568 | 1462.238 | 1461.082 | 1461.082 | 1509.224 |
| 23 | 1588.792 | 1539.954 | 1461.88 | 1477.484 | 1477.484 | 1509.688 |
| 24 | 1585.022 | 1530.352 | 1461.544 | 1452.674 | 1452.674 | 1508.086 |
| 25 | 1580.708 | 1523.074 | 1463.41 | 1447.662 | 1447.662 | 1507.492 |
| 26 | 1581.768 | 1515.65 | 1463.546 | 1428.746 | 1428.746 | 1507.62 |
| 27 | 1575.774 | 1521.25 | 1457.042 | 1414.402 | 1414.402 | 1490.97 |
| 28 | 1576.962 | 1521.552 | 1455.366 | 1421.786 | 1421.786 | 1489.482 |
| 29 | 1574.064 | 1505.616 | 1454.04 | 1409.848 | 1409.848 | 1474.732 |
| 30 | 1571.296 | 1501.09 | 1437.808 | 1384.132 | 1384.132 | 1456.396 |
| 31 | 1570.958 | 1490.164 | 1435.998 | 1379.384 | 1379.384 | 1453.178 |
| 32 | 1567.828 | 1494.19 | 1423.906 | 1379.02 | 1379.02 | 1452.024 |
| 33 | 1566.99 | 1499.54 | 1424.712 | 1366.088 | 1366.088 | 1444.758 |
| 34 | 1562.684 | 1485.388 | 1411.2 | 1359.086 | 1359.086 | 1419 |
| 35 | 1558.27 | 1486.258 | 1402.998 | 1340.54 | 1340.54 | 1406.074 |
| 36 | 1557.83 | 1473.006 | 1398.998 | 1332.554 | 1332.554 | 1411.718 |

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|------------|----------------|-----------------|-------------------|-------------------|-----------------|----------------|
| 37 | 1516.07 | 1466.088 | 1389.74 | 1328.258 | 1328.258 | 1385.296 |
| 38 | 1514.836 | 1477.692 | 1390.71 | 1345.758 | 1345.758 | 1396.666 |
| 39 | 1463.69 | 1468.758 | 1378.594 | 1296.056 | 1296.056 | 1338.452 |
| 40 | 1432.614 | 1450.854 | 1367.838 | 1271.726 | 1271.726 | 1328.124 |
| 41 | 1436.536 | 1451.186 | 1365.984 | 1264.726 | 1264.726 | 1328.788 |
| 42 | 1412.168 | 1444.314 | 1357.674 | 1244.61 | 1244.61 | 1304.074 |
| 43 | 1395.328 | 1450.982 | 1361.578 | 1258.966 | 1258.966 | 1306.486 |
| 44 | 1374.122 | 1444.796 | 1328.54 | 1206.964 | 1206.964 | 1286.83 |
| 45 | 1339.674 | 1445.376 | 1309.774 | 1194.23 | 1194.23 | 1254.636 |
| 46 | 1340.606 | 1440.868 | 1321.246 | 1190.798 | 1190.798 | 1265.094 |
| 47 | 1282.39 | 1433.334 | 1281.314 | 1153.736 | 1153.736 | 1239.014 |
| 48 | 1303.506 | 1433.274 | 1283.842 | 1166.256 | 1166.256 | 1245.962 |
| 49 | 1254.794 | 1405.802 | 1263.768 | 1149.904 | 1149.904 | 1226.46 |
| 50 | 1243.782 | 1385.392 | 1263.496 | 1133.444 | 1133.444 | 1217.02 |
| 51 | 1249.752 | 1383.85 | 1238.376 | 1117.686 | 1117.686 | 1216.22 |
| 52 | 1240.964 | 1371.246 | 1239.606 | 1114.574 | 1114.574 | 1210.198 |
| 53 | 1245.836 | 1357.106 | 1264.764 | 1118.946 | 1118.946 | 1193.81 |
| 54 | 1228.596 | 1347.888 | 1241.358 | 1097.846 | 1097.846 | 1221.382 |
| 55 | 1223.386 | 1339.19 | 1225.052 | 1076.472 | 1076.472 | 1192.388 |
| 56 | 1216.426 | 1336.276 | 1225.652 | 1077.348 | 1077.348 | 1181.036 |
| 57 | 1219.632 | 1318.764 | 1220.49 | 1063.068 | 1063.068 | 1170.812 |
| 58 | 1218.91 | 1320.46 | 1215.286 | 1062.206 | 1062.206 | 1173.598 |
| 59 | 1195.434 | 1306.452 | 1198.008 | 1037.712 | 1037.712 | 1088.382 |
| 60 | 1181.718 | 1284.51 | 1253.836 | 1017.458 | 1017.458 | 1059.738 |
| 61 | 1177.756 | 1294.694 | 1245.352 | 1023.004 | 1023.004 | 1065.806 |
| 62 | 1133.014 | 1282.71 | 1257.042 | 993.032 | 993.032 | 1049.256 |
| 63 | 1146.508 | 1282.862 | 1241.078 | 993.166 | 993.166 | 1041.59 |
| 64 | 1125.2 | 1286.84 | 1213.472 | 948.164 | 948.164 | 1033.514 |
| 65 | 1113.978 | 1279.822 | 1192.968 | 928.67 | 928.67 | 1021.948 |
| 66 | 1135.956 | 1288.012 | 1193.72 | 927.06 | 927.06 | 1012.442 |
| 67 | 1097.166 | 1257.328 | 1194.194 | 884.304 | 884.304 | 990.304 |
| 68 | 1107.22 | 1277.18 | 1201.664 | 892.576 | 892.576 | 992.496 |
| 69 | 1061.576 | 1261.546 | 1180.338 | 851.004 | 851.004 | 973.334 |
| 70 | 995.356 | 1265.46 | 1152.76 | 840.522 | 840.522 | 954.3 |
| 71 | 1021.398 | 1264.708 | 1168.94 | 838.97 | 838.97 | 954.806 |
| 72 | 984.29 | 1262.794 | 1123.696 | 840.636 | 840.636 | 929.966 |
| 73 | 1006.048 | 1258.314 | 1146.676 | 842.188 | 842.188 | 933.27 |
| 74 | 971.586 | 1253.652 | 1102.298 | 822.736 | 822.736 | 907.674 |
| 75 | 926.876 | 1245.522 | 1100.274 | 797.184 | 797.184 | 868.622 |
| 76 | 938.612 | 1247.55 | 1083.062 | 786.304 | 786.304 | 872.33 |
| 77 | 897.188 | 1246.572 | 1065.09 | 761.048 | 761.048 | 832.71 |
| 78 | 902.29 | 1245.276 | 1052.5 | 769.712 | 769.712 | 842.022 |
| 79 | 862.042 | 1233.818 | 1027.524 | 739.446 | 739.446 | 815.978 |
| 80 | 786.79 | 1227.36 | 997.134 | 724.104 | 724.104 | 794.68 |
| 81 | 801.772 | 1227.734 | 1012.132 | 722.302 | 722.302 | 785.244 |
| 82 | 751.306 | 1206.746 | 987.332 | 677.464 | 677.464 | 767.954 |
| 83 | 769.232 | 1205.916 | 976.522 | 675.834 | 675.834 | 763.602 |
| 84 | 667.372 | 1183.698 | 958.986 | 643.13 | 643.13 | 729.952 |
| 85 | 595.524 | 1180.974 | 931.404 | 590.956 | 590.956 | 717.392 |
| 86 | 581.0 | 1172.66 | 922.036 | 594.646 | 594.646 | 708.302 |
| 87 | 470.776 | 1138.83 | 883.868 | 533.208 | 533.208 | 688.972 |
| 88 | 472.698 | 1149.488 | 893.724 | 533.68 | 533.68 | 691.71 |
| 89 | 457.642 | 1142.324 | 850.698 | 468.42 | 468.42 | 655.232 |
| 90 | 455.43 | 1108.204 | 796.8 | 465.82 | 465.82 | 588.446 |
| 91 | 454.814 | 1110.436 | 812.808 | 463.61 | 463.61 | 592.776 |
| 92 | 451.468 | 1059.948 | 720.762 | 456.86 | 456.86 | 534.246 |
| 93 | 452.38 | 1086.916 | 705.248 | 456.694 | 456.694 | 534.54 |
| 94 | 448.106 | 1031.576 | 602.7 | 447 | 447 | 531.638 |
| 95 | 444.828 | 895.416 | 599.2 | 447 | 447 | 527.784 |
| 96 | 444.982 | 942.176 | 599.12 | 447 | 447 | 527.344 |

| Difficulty | random.seed(1) | random.seed(42) | random.seed(1997) | random.seed(2016) | random.seed(12) | random.seed(8) |
|------------|----------------|-----------------|-------------------|-------------------|-----------------|----------------|
| 97 | 438.16 | 751.864 | 593.158 | 447 | 447 | 520.22 |
| 98 | 439.8 | 754.888 | 592.138 | 447 | 447 | 520.04 |
| 99 | 419.2 | 265.0 | 575 | 447 | 447 | 515 |
| 100 | 419.0 | 265.0 | 575 | 447 | 447 | 515 |