Tejass-MBP-2:testothello tejasmunees\$ python3 play.py !OTHELLO! Choose player using BLACK: Player's to choose from : human, random, alpha, expec, minmax, > expec Choose Level 1.Easy 2.Medium 3.Hard > 3 Choose player using WHITE: Player's to choose from : human, random, alpha, expec, minmax, > minmax Choose Level 1.Easy 2.Medium 3.Hard Move made by '@' is: 43 in 0.000836 seconds Move made by 'o' is: 35 in 0.015309 seconds Move made by '@' is: 26 in 327.851476 seconds Move made by 'o' is: 42 in 0.025498 seconds Move made by '@' is: 34 in 816.478339 seconds Move made by 'o' is: 53 in 0.036971 seconds Move made by '@' is: 52 in 1895.208711 seconds Move made by 'o' is: 62 in 0.066802 seconds Move made by '@' is: 71 in 3790.328551 seconds Move made by 'o' is: 25 in 0.07051 seconds Move made by '@' is: 24 in 3650.900816 seconds Move made by 'o' is: 72 in 0.098299 seconds Move made by '@' is: 65 in 12252.948587 seconds

Last login: Fri Apr 10 04:19:59 on ttys000

Tejass-MBP-2:testothello tejasmunees\$ clear

Tejass-MBP-2:~ tejasmunees\$ cd Desktop/testothello/

Move made by 'o' is: 17 in 0.09931 seconds Move made by '@' is: 27 in 19295.528863 seconds Move made by 'o' is: 16 in 0.122524 seconds Move made by '@' is: 73 in 14677.468298 seconds Move made by 'o' is: 75 in 0.12436 seconds Move made by '@' is: 51 in 660.937142 seconds Move made by 'o' is: 82 in 0.051132 seconds Move made by '@' is: 56 in 1014.681925 seconds Move made by 'o' is: 66 in 0.198657 seconds Move made by '@' is: 33 in 7177.781444 seconds Move made by 'o' is: 32 in 0.099922 seconds Move made by '@' is: 74 in 1934.471392 seconds Move made by 'o' is: 64 in 0.080045 seconds Move made by '@' is: 84 in 424.674592 seconds Move made by 'o' is: 28 in 0.049498 seconds Move made by '@' is: 22 in 318.778908 seconds Move made by 'o' is: 12 in 0.07289 seconds Move made by '@' is: 57 in 124.740811 seconds Move made by 'o' is: 58 in 0.038578 seconds Move made by '@' is: 47 in 1167.501385 seconds Move made by 'o' is: 67 in 0.050546 seconds Move made by '@' is: 77 in 336.217366 seconds Move made by 'o' is: 88 in 0.045756 seconds Move made by '@' is: 23 in 898.611149 seconds Move made by 'o' is: 78 in 0.070284 seconds Move made by '@' is: 46 in 171.539506 seconds Move made by 'o' is: 76 in 0.04085 seconds Move made by '@' is: 15 in 321.921612 seconds Move made by 'o' is: 36 in 0.017113 seconds Move made by '@' is: 87 in 66.968278 seconds Move made by 'o' is: 86 in 0.012669 seconds Move made by '@' is: 85 in 23.231409 seconds Move made by 'o' is: 14 in 0.014316 seconds Move made by '@' is: 37 in 7.345553 seconds Move made by 'o' is: 48 in 0.007631 seconds Move made by '@' is: 63 in 0.462852 seconds Move made by 'o' is: 83 in 0.002687 seconds Move made by '@' is: 21 in 0.006859 seconds Move made by 'o' is: 41 in 0.003311 seconds Move made by '@' is: 13 in 0.119131 seconds Move made by 'o' is: 68 in 0.001499 seconds Move made by '@' is: 61 in 0.007014 seconds Move made by 'o' is: 81 in 0.000563 seconds Move made by '@' is: 31 in 0.000588 seconds Move made by 'o' is: 11 in 0.000372 seconds Move made by '@' is: 38 in 0.000228 seconds Move made by '@' is: 18 in 0.000137 seconds White wins!

Score for BLACK is: 30 and WHITE is: 34

Total time taken by Black(@) is: 71356.713758 seconds and average per move is: 2301.8294760645163

1 2 3 4 5 6 7 8

1 o o @ @ @ @ @ @

200@000@@

3 o @ @ @ @ @ @

4 0 @ @ 0 0 0 @ 0

5 0 @ @ @ @ @ 0 0

60@@@@000

7 0 0 0 0 0 0 0 0

800000000

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