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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: 34 in 0.000621 seconds
Move made by 'o' is: 53 in 0.009152 seconds
Move made by '@' is: 62 in 316.722732 seconds
Move made by 'o' is: 52 in 0.023871 seconds
Move made by '@' is: 42 in 673.033559 seconds
Move made by 'o' is: 51 in 0.04445 seconds
Move made by '@' is: 65 in 689.213489 seconds
Move made by 'o' is: 76 in 0.060348 seconds
Move made by '@' is: 75 in 629.889273 seconds
Move made by 'o' is: 74 in 0.068481 seconds
Move made by '@' is: 87 in 1842.449563 seconds
Move made by 'o' is: 35 in 0.081573 seconds
Move made by '@' is: 64 in 2722.43122 seconds
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Move made by 'o' is: 31 in 0.103236 seconds Move made by '@' is: 46 in 3666.564924 seconds Move made by 'o' is: 24 in 0.09905 seconds Move made by '@' is: 43 in 4613.566012 seconds Move made by 'o' is: 77 in 0.112367 seconds Move made by '@' is: 41 in 28227.515562 seconds Move made by 'o' is: 33 in 0.137741 seconds Move made by '@' is: 21 in 13066.21736 seconds Move made by 'o' is: 11 in 0.096223 seconds Move made by '@' is: 25 in 7767.37248 seconds Move made by 'o' is: 15 in 0.13966 seconds Move made by '@' is: 73 in 4750.121827 seconds Move made by 'o' is: 84 in 0.044214 seconds Move made by '@' is: 82 in 1116.334188 seconds Move made by 'o' is: 63 in 0.023615 seconds Move made by '@' is: 32 in 1443.950329 seconds Move made by 'o' is: 83 in 0.042908 seconds Move made by '@' is: 22 in 2156.251111 seconds Move made by 'o' is: 66 in 0.044889 seconds Move made by '@' is: 12 in 615.875572 seconds Move made by 'o' is: 23 in 0.022018 seconds Move made by '@' is: 56 in 243.547009 seconds Move made by 'o' is: 36 in 0.026096 seconds Move made by '@' is: 14 in 331.593744 seconds Move made by 'o' is: 81 in 0.005483 seconds Move made by '@' is: 72 in 91.315479 seconds Move made by 'o' is: 61 in 0.008958 seconds Move made by '@' is: 86 in 43.400883 seconds Move made by 'o' is: 13 in 0.005398 seconds Move made by '@' is: 71 in 30.709261 seconds Move made by 'o' is: 85 in 0.00258 seconds Move made by '@' is: 27 in 21.904137 seconds Move made by 'o' is: 18 in 0.011435 seconds Move made by '@' is: 78 in 13.155294 seconds Move made by 'o' is: 88 in 0.002807 seconds Move made by '@' is: 47 in 5.684907 seconds Move made by 'o' is: 48 in 0.010402 seconds Move made by '@' is: 57 in 2.797841 seconds Move made by 'o' is: 68 in 0.002501 seconds Move made by '@' is: 37 in 0.189869 seconds Move made by 'o' is: 38 in 0.003012 seconds Move made by '@' is: 28 in 0.00396 seconds Move made by 'o' is: 26 in 0.000871 seconds Move made by '@' is: 16 in 0.001383 seconds Move made by 'o' is: 17 in 0.000393 seconds Move made by '@' is: 58 in 0.000221 seconds Move made by 'o' is: 67 in 0.000222 seconds White wins!

Score for BLACK is: 13 and WHITE is: 51

Total time taken by Black(@) is: 75081.81380999999 seconds and average per move is: 2502.7271269999997

Total time taken by White(o) is: 1.2339540000000002 seconds and average per mov e is: 0.04113180000000001

1 2 3 4 5 6 7 8

1 0 0 0 0 0 0 0 0

2000000000

3 0 0 0 0 0 0 0 0

4000000000

5 0 0 @ 0 @ 0 0 @ 60@00000

70000000

80000000

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