

~/Desktop via  base

→ ./othello.sh

!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,

> alpha

Choose Level 1.Easy 2.Medium 3.Hard

> 2

Move made by '@' is: 43 in 0.001145 seconds

Move made by 'o' is: 35 in 0.07753 seconds

Move made by '@' is: 26 in 147.031784 seconds

Move made by 'o' is: 33 in 0.17023 seconds

Move made by '@' is: 34 in 731.056245 seconds

Move made by 'o' is: 63 in 0.441482 seconds

Move made by '@' is: 22 in 4290.314821 seconds

Move made by 'o' is: 11 in 0.126687 seconds

Move made by '@' is: 32 in 1230.326295 seconds

Move made by 'o' is: 24 in 0.401959 seconds

Move made by '@' is: 12 in 1271.151328 seconds

Move made by 'o' is: 46 in 0.516175 seconds

Move made by '@' is: 36 in 556.817699 seconds

Move made by 'o' is: 16 in 0.338892 seconds

Move made by '@' is: 17 in 2371.583407 seconds

Move made by 'o' is: 18 in 0.215955 seconds

Move made by '@' is: 56 in 1738.498762 seconds

Move made by 'o' is: 66 in 0.571631 seconds

Move made by '@' is: 72 in 3605.625266 seconds

Move made by 'o' is: 31 in 0.593982 seconds

Move made by '@' is: 77 in 2181.892087 seconds

Move made by 'o' is: 42 in 0.40135 seconds

Move made by '@' is: 21 in 620.053481 seconds

Move made by 'o' is: 81 in 0.819059 seconds

Move made by '@' is: 25 in 1094.265067 seconds

Move made by 'o' is: 88 in 0.359127 seconds

Move made by '@' is: 23 in 2131.854243 seconds

Move made by 'o' is: 15 in 0.15527 seconds

Move made by '@' is: 52 in 246.899546 seconds

Move made by 'o' is: 61 in 0.162605 seconds

Move made by '@' is: 47 in 219.293919 seconds

Move made by 'o' is: 58 in 0.191416 seconds

Move made by '@' is: 76 in 906.278298 seconds

Move made by 'o' is: 86 in 0.387045 seconds

Move made by '@' is: 62 in 243.204044 seconds

Move made by 'o' is: 53 in 0.119925 seconds

Move made by '@' is: 73 in 561.819581 seconds

Move made by 'o' is: 64 in 0.140801 seconds

Move made by '@' is: 82 in 687.769478 seconds

Move made by 'o' is: 51 in 0.114722 seconds

Move made by '@' is: 41 in 58.42671 seconds

Move made by 'o' is: 71 in 0.06414 seconds

Move made by '@' is: 75 in 67.74472 seconds

Move made by 'o' is: 65 in 0.081715 seconds  
 Move made by '@' is: 74 in 74.911674 seconds  
 Move made by 'o' is: 85 in 0.05386 seconds  
 Move made by '@' is: 87 in 32.450654 seconds  
 Move made by 'o' is: 67 in 0.05136 seconds  
 Move made by '@' is: 48 in 14.409453 seconds  
 Move made by 'o' is: 13 in 0.055344 seconds  
 Move made by '@' is: 57 in 4.059188 seconds  
 Move made by 'o' is: 38 in 0.031879 seconds  
 Move made by '@' is: 84 in 0.126682 seconds  
 Move made by 'o' is: 37 in 0.006679 seconds  
 Move made by '@' is: 28 in 0.007933 seconds  
 Move made by 'o' is: 68 in 0.002486 seconds  
 Move made by '@' is: 78 in 0.001136 seconds  
 Move made by 'o' is: 27 in 0.000273 seconds  
 Move made by '@' is: 14 in 0.000176 seconds  
 Move made by 'o' is: 83 in 0.000161 seconds  
 White wins!

Score for BLACK is: 31 and WHITE is: 33

Total time taken by Black(@) is: 25087.874821999994 seconds and average per move is: 836.2624940666665

Total time taken by White(o) is: 6.653740000000001 seconds and average per move is: 0.22179133333333337

```

1 2 3 4 5 6 7 8
1 o o o @ o o o o
2 @ @ @ @ @ o o @
3 @ @ @ @ o @ o @
4 @ @ @ @ @ o @ @
5 o @ @ @ @ @ o @
6 o o o o o o @ @
7 o o o o @ o @ @
8 o o o o o o o o
  
```

```

./othello.sh: line 3: alpha: command not found
./othello.sh: line 4: 3: command not found
./othello.sh: line 5: expect: command not found
./othello.sh: line 6: 3: command not found
  
```

~/Desktop via  base took 6h 58m 20s

