

~/Desktop via  base

→ ./othello.sh

!OTHELLO!

Choose player using BLACK:

Player's to choose from : human,random,alpha,expec,minmax,

> minmax

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 0.000673 seconds

Move made by 'o' is: 35 in 0.108092 seconds

Move made by '@' is: 66 in 25.708547 seconds

Move made by 'o' is: 65 in 0.315092 seconds

Move made by '@' is: 64 in 92.482298 seconds

Move made by 'o' is: 53 in 0.445339 seconds

Move made by '@' is: 34 in 266.019027 seconds

Move made by 'o' is: 33 in 0.321167 seconds

Move made by '@' is: 36 in 528.921959 seconds

Move made by 'o' is: 37 in 0.72056 seconds

Move made by '@' is: 22 in 849.033187 seconds

Move made by 'o' is: 75 in 0.763549 seconds

Move made by '@' is: 38 in 1367.123725 seconds

Move made by 'o' is: 11 in 0.504571 seconds

Move made by '@' is: 85 in 638.541624 seconds

Move made by 'o' is: 56 in 0.625647 seconds

Move made by '@' is: 42 in 678.801461 seconds

Move made by 'o' is: 63 in 0.786841 seconds

Move made by '@' is: 72 in 782.754789 seconds

Move made by 'o' is: 76 in 0.806434 seconds

Move made by '@' is: 67 in 932.582832 seconds

Move made by 'o' is: 81 in 0.84273 seconds

Move made by '@' is: 62 in 243.76954 seconds

Move made by 'o' is: 46 in 0.446132 seconds

Move made by '@' is: 82 in 542.668519 seconds

Move made by 'o' is: 86 in 0.881375 seconds

Move made by '@' is: 87 in 892.43867 seconds

Move made by 'o' is: 84 in 1.826055 seconds

Move made by '@' is: 47 in 798.485617 seconds

Move made by 'o' is: 88 in 1.443465 seconds

Move made by '@' is: 77 in 201.585442 seconds

Move made by 'o' is: 31 in 0.453711 seconds

Move made by '@' is: 32 in 296.330735 seconds

Move made by 'o' is: 24 in 0.776157 seconds

Move made by '@' is: 52 in 621.686105 seconds

Move made by 'o' is: 73 in 0.63285 seconds

Move made by '@' is: 25 in 274.868153 seconds

Move made by 'o' is: 15 in 0.463051 seconds

Move made by '@' is: 83 in 326.578468 seconds

Move made by 'o' is: 26 in 0.366712 seconds

Move made by '@' is: 14 in 206.435655 seconds

Move made by 'o' is: 13 in 0.252092 seconds

Move made by '@' is: 17 in 97.240785 seconds

Move made by 'o' is: 16 in 0.154809 seconds

Move made by '@' is: 74 in 35.613539 seconds

Move made by 'o' is: 18 in 0.158831 seconds
Move made by '@' is: 23 in 13.830589 seconds
Move made by 'o' is: 28 in 0.318855 seconds
Move made by '@' is: 27 in 5.733741 seconds
Move made by 'o' is: 61 in 0.105761 seconds
Move made by '@' is: 71 in 3.965595 seconds
Move made by 'o' is: 41 in 0.066694 seconds
Move made by '@' is: 51 in 0.270241 seconds
Move made by 'o' is: 48 in 0.015906 seconds
Move made by '@' is: 58 in 0.028599 seconds
Move made by 'o' is: 68 in 0.002808 seconds
Move made by '@' is: 57 in 0.00227 seconds
Move made by '@' is: 78 in 0.000659 seconds
Move made by '@' is: 21 in 0.000277 seconds
Move made by 'o' is: 12 in 0.000122 seconds
Black wins!


Score for BLACK is: 36 and WHITE is: 28

Total time taken by Black(@) is: 10723.503320999997 seconds and average per move is:
345.9194619677418

Total time taken by White(o) is: 14.605407999999995 seconds and average per move is:
0.5036347586206895

```
1 2 3 4 5 6 7 8
1 o o o o o o o o
2 @ @ o @ o o @ o
3 @ @ @ o @ @ o o
4 @ @ @ @ @ @ @ o
5 @ @ @ @ o @ @ o
6 @ @ o o o @ @ o
7 @ @ @ @ @ @ @ @
8 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 2h 59m 6s

