Programing Assignment #5

CSCE 625 - Artificial Intelligence

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- 1. The source code I turned in are named "Board.java" and "Othello.java". Open a Command Prompt, enter the folder where the source codes are located. Compile with command "javac Othello.java". Then run with command "java Othello" (shown in Figure 1 in blue frames).
- 2. Then type in commands, shown in Figure 1 in orange frames. The chosen moves are in green frames.
- (1). othello 6 B 6
- (2). init
- (3). move B
- (4). move W

```
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C:\Windows\System32>cd C:\Users\001\Desktop\AI_hw5
C:\Users\001\Desktop\AI_hw5>javac Othello.java
C:\Users\001\Desktop\AI_hw5\java Othello
othello 6 B 6
     . B W
move B
making move for B...
#considering: (3,4), mm=-2
#considering: (1,2), mm=-2
#considering: (2,1), mm=-2
(3 4)
# score=3
       W B
       W B .
B B B
move W
making move for W...
#considering: (2,4), mm=5
#considering: (4,2), mm=3
#considering: (4,4), mm=5
(4 2)
# score=0
       . . . .
W B . .
     . W B B .
       W . . .
```

3. You can specialize a legal move by yourself. Shown in Figure 2 in orange frames.

Figure 2

4. When game finishes, it is shown in Figure 3.

```
move W
making move for W...
#considering: (4,0), mm=7
(4 0)
# score=7
# W W W W B B
# W W W B B
# W W W B B
# W W B B B
# W B B B B
# W B B B B
# B B B B
move B
making move for B...
No more moves.
making move for W...
Game over
```

Figure 3

5. You can also type in commands "reset" and "quit", shown in Figure 4 in orange frames.



Figure 4

----- There are appendixes in the next pages. ------

Appendix A: Transcript

```
C:\Users\001\Desktop\AI_hw5>java Othello
othello 6 B 6
init
# . . . . . .
# . . . . . .
#..WB..
\#\ldots B\ W\ldots
# . . . . .
# . . . . . .
move B
making move for B...
#considering: (3,4), mm=-2
#considering: (1,2), mm=-2
#considering: (4,3), mm=-2
#considering: (2,1), mm=-2
(34)
# score=3
# . . . . . .
# . . . . . .
\# \dots W B \dots
#..BBB.
# . . . . . .
# . . . . . .
move W
making move for W...
#considering: (2,4), mm=5
#considering: (4,2), mm=3
#considering: (4,4), mm=5
(42)
# score=0
# . . . . . .
# . . . . . .
\#\ldots W\;B\ldots
#..WBB.
# . . W . . .
# . . . . .
put B 0 0
```

```
put B 3 2
illegal input coordinate. Enter again.
put B 3 1
# score=3
# . . . . . .
# . . . . .
# . . W B . .
#.BBBB.
\#\ldots W\ldots
# . . . . . .
. . .
. . .
move W
making move for W...
#considering: (4,0), mm=7
(4 \ 0)
# score=7
\# W W W B B
\# W W W B B
\# W W W B B B
#WWBBBB
#WBBBBB
\# . B B B B B
move B
making move for B...
No more moves.
making move for W...
Game over
game over. score=7
```

illegal input coordinate. Enter again.