Low Zheng Rong | WEA150007 | 17152121/1

Algorithm

- 1. Our heuristic function returns either a score of $+\infty$ if the player wins and $-\infty$ otherwise.
- 2. The program computes the number of legal moves remaining for the player (*my_moves*) and opponent (*opponent_moves*) respectively, and the heuristic score is computed and returned as follows:

$$score = my_moves^2 - opponent_moves$$

 The results show a significant increase in heuristic score for our heuristic function (attached in low-wea150007.py) if compared to "ID_Improved".

Results

```
******
Evaluating: ID_Improved
********
Playing Matches:
Results:
-----
ID_Improved
                   64.86%
*******
  Evaluating: LOWS_HEURISTIC
*******
Playing Matches:
-----
 Match 1: LOWS_HEURISTIC vs Random
Match 2: LOWS_HEURISTIC vs MM_Null
Match 3: LOWS_HEURISTIC vs MM_Open
                                                 Result: 188 to 12
                                                Result: 163 to 37
                                                 Result: 112 to 88
 Match 4: LOWS_HEURISTIC vs MM_Improved
                                                 Result: 115 to 85
 Match 5: LOWS_HEURISTIC vs AB_Null Result: 159 to 41
Match 6: LOWS_HEURISTIC vs AB_Open Result: 127 to 73
 Match 7: LOWS_HEURISTIC vs AB_Improved Result: 122 to 78
Results:
LOWS_HEURISTIC
                           70.43%
```