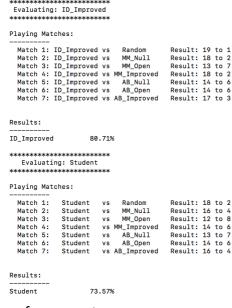
1. Number of my moves

a. 73.5%. The heuristic function here is number of my moves. This heuristic function can help me win most of the time by selecting relatively reasonable path that maximizes this heuristic function. But it fails to consider opponent's situation.



Number of opponent moves

b.

b.

a. 69.29%. The heuristic function here is number of my opponent moves. This heuristic function achieves worse score than first heuristic function by selecting relatively reasonable path for my opponent that maximizes this heuristic function. I definitely don't want to use this heuristic function.

```
Playing Matches:
                                                    Random
MM_Null
MM_Open
                                                                            Result: 19 to 1
Result: 19 to 1
Result: 17 to 3
Result: 15 to 5
   Match 1: ID_Improved vs
Match 2: ID_Improved vs
   Match 3: ID_Improved vs MM_Open Result: 17 to 3
Match 4: ID_Improved vs MM_Improved Result: 15 to 5
Match 5: ID_Improved vs AB_Null Result: 19 to 1
Match 6: ID_Improved vs AB_Open Result: 17 to 3
Match 7: ID_Improved vs AB_Improved Result: 18 to 2
Results:
ID_Improved
                                     88.57%
Playing Matches:
   Match 1:
Match 2:
                        Student vs Random
Student vs MM_Null
Student vs MM_Open
                                                                            Result: 17 to 3
Result: 18 to 2
                       Student vs MM_Open
Student vs MM_Improved
Student vs AB_Null
Student vs AB_Open
    Match 3:
                                                                            Result: 11 to 9
Result: 14 to 6
   Match 4:
   Match 5:
Match 6:
Match 7:
                                           vs AB_Improved Result: 12 to 8
                       Student
Results:
Student
                                      69.29%
```

3. Number of my moves – Number of opponent moves

a. 90%. The heuristic function here is number of my moves minus number of opponent moves. This heuristic function can help me win most of the time by selecting relatively optimal path that maximizes this heuristic function. That's why I select this heuristic function to be my final choice.

