## **Advanced Search Techniques**

Choose a baseline search algorithm for comparison (for example, alpha-beta search with iterative deepening, etc.). How much performance difference does your agent show compared to the baseline?

I tried different depths(3,4,5,6,7,10) with different 'NUM\_ROUNDS'. Results were similar at same depth, and increasing NUM\_ROUNDS made a little changes to results. The results ranged around 50%(at higher depths) to 80%(at 6<sup>th</sup> depth).

Why do you think the technique you chose was more (or less) effective than the baseline?

Adding Alpha-Beta algorithm and a function that chooses the best possible move to minimax improved the results.







