

Games experiment – 100 rounds with fair matches

depth of 3

Analyze the search depth your agent achieves using your custom heuristic. Does search speed matter more or less than accuracy to the performance of your heuristic?

Opponent	Player Search Depth	Time Limit ms	Win pct	Execution time minutes(m). Seconds (s)
MINMAX	2	150	42.2%	1m 41.961s
MINMAX	3	150	61.0%	2m 43.188s
MINMAX	4	150	60.5%	5m 8.071s
Greedy	2	150	64.0%	1m 1.020s
Greedy	3	150	79.5%	2m 8.672s
Greedy	4	1500	0.0 %	Timeout

From the above table, the heuristic works good with search depth level of 3. However, the agent does not gain much by going deeper in the search levels. Search time increases significantly with increased depth