

## Sudoku Final AI Report

Team number \_\_\_\_\_

Member #1 (name/id) \_\_\_\_\_

Member #2 (name/id) \_\_\_\_\_

### I. Minimal AI

I.A. Briefly describe your Minimal AI algorithm. What did you do that was fun, clever, or creative?

### I.B Describe your Minimal AI algorithm's performance:

E.g. Generate around 60 boards of different difficulties and run your Minimal AI algorithm. Then provide a few words and a table like the following:

Board Size	Sample Size (n)	Boards Solved	Average # of backtracks
9x9 (easy)			
12x12 (intermediate)			
16x16 (hard)			
25x25 (Expert)			
Total Summary			

### II. Final AI

II.A. How did integrating advanced techniques (LCV, MRV, MAD, or NOR) into the Final AI change its solving strategy compared to Minimal AI?

**II.B. Which of the advanced heuristics (LCV, MRV, MAD, or NOR) had the most significant impact on the performance, and why do you think that was?**

**II.C Describe your Final AI algorithm's performance:**

E.g. Use the same generated 60 boards from earlier and run your Final AI algorithm. Compare your results with Minimal AI performance, then provide a few words and a table like the following:

Board Size	Sample Size (n)	Boards Solved	Average # of backtracks
9x9 (easy)			
12x12 (intermediate)			
16x16 (hard)			
25x25 (Expert)			
Total Summary			

**III. Has this project altered your interest or perspective towards artificial intelligence? If so, how?**

**III. In about 1/4 page of text or less, provide suggestions for improving this project (*this section does NOT count as past of your two-page total limit.*)**