

*This document is a description of the two Sudoku solvers built for this project. The first part details the Z3<sup>1</sup> theorem prover based solution. The second describes my own algorithm proposal.*

## Z3 based solver

TBD

## My solver

The following is the algorithm.

**Input:** Sudoku problem

**Result:** Sudoku solution

TBD

**Algorithm 1:** Backtracking algorithm based Sudoku solver

## Comparison

TODO: express the downsides and upsides of my implementation. Have some graph to synthesize some benchmarking testing.

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<sup>1</sup>by Microsoft