

COMP 6902 Project

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Problem Definition

Sudoku Verifier:

Instance: An $n^2 \times n^2$ Sudoku grid, filled with an arbitrary amount of numbers $\in [1, n^2]$, where $n \in \mathbb{N} \setminus \{0\}$

Accept: if the Sudoku grid has a solution. A Sudoku grid is said to have a solution if for all rows, columns and $n \times n$ sub-grids, the Sudoku grid contains each of the n possible numbers.

A typical Sudoku grid is 9×9 (or $3^2 \times 3^2$), but we have made our problem an $n \times n$ to allow for other sizes of instances of the problem.