Problem Formulation

> initial State:

A standard Sudoku board, with some of the boxes filled in as specified.

> Successor Function:

Fill an empty box with a number from 1 to 9 and each number can only occur once in each row, column, and box.

> Goal Test:

A filled in sudoku board where each cell contain a number from one to nine and each number can only occur once in each row, column and box.

> Path Cost:

Each move cost one.

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Search tree

