

The following is a traceback of a given puzzle and requested algorithm, detailed in the assignment specifications.

Welcome to an 8-Puzzle Solver. Type '1' to use a default puzzle, or '2' to create your own.
2

Enter your puzzle, using a zero to represent the blank. Please only enter valid 8-puzzles. Enter the puzzle demilimiting the numbers with a space. RET only when finished.

Enter the first row: 1 2 3

Enter the second row: 4 0 6

Enter the third row: 7 5 8

Select algorithm. (1) for Uniform Cost Search, (2) for the Misplaced Tile Heuristic, or (3) the Manhattan Distance Heuristic.

3

[1, 2, 3]

[0, 4, 6]

[7, 5, 8]

[1, 2, 3]

[4, 5, 6]

[0, 7, 8]

[1, 0, 3]

[4, 2, 6]

[7, 5, 8]

[1, 2, 3]

[4, 5, 6]

[7, 0, 8]

[1, 2, 3]

[4, 6, 0]

[7, 5, 8]

[1, 2, 3]

[4, 0, 6]

[7, 5, 8]

Number of nodes expanded: 13

Max queue size: 8