

Would you like to enter a puzzle to be solved? Y or N?

N

Puzzle to be solved:

1 0 3

4 2 6

7 5 8

1. Uniform Cost Search

2. Misplaced Tile

3. Euclidean Distance

4. Manhattan Distance

Please enter the number of the heuristic would you like to use:

3

The best state to expand with  $g(n) = 0$  and  $h(n) = 0$

1 0 3

4 2 6

7 5 8

Expanding this state.

The best state to expand with  $g(n) = 1$  and  $h(n) = 3.41421$

1 2 3

4 0 6

7 5 8

Expanding this state.

The best state to expand with  $g(n) = 2$  and  $h(n) = 2$

1 2 3

4 5 6

7 0 8

Expanding this state.

Solution found!

1 2 3

4 5 6

7 8 0

Heuristic used: Euclidean Distance

To solve this problem the search algorithm expanded a total of 3 nodes.

The maximum number of nodes in the queue at any one time was: 6.

The depth of the goal node was: 3.