**Sample Depth 12**

\*\*\*8-puzzle Solver Using A\* Algorithms\*\*\*\*

Enter 0 to write inputs,

Enter 1 to take input from a text file:

0

Enter 1 for h1 heuristic, 2 for h2 heuristic:

1

Enter unique numbers from 0 to 9

4 2 7 1 3 5 6 8 0

4 2 7

1 3 5

6 8 0

Depth: 0

4 2 7

1 3 5

6 0 8

Depth: 1

4 2 7

1 0 5

6 3 8

Depth: 2

4 2 7

1 3 5

6 8 0

Depth: 2

4 2 7

1 3 5

6 0 8

Depth: 3

4 2 7

1 3 5

0 6 8

Depth: 2

4 0 7

1 2 5

6 3 8

Depth: 3

4 2 7

1 3 5

6 0 8

Depth: 3

4 2 7

0 1 5

6 3 8

Depth: 3

4 2 7

1 3 0

6 8 5

Depth: 1

4 2 7

1 3 5

6 8 0

Depth: 2

4 2 7

0 3 5

1 6 8

Depth: 3

4 2 0

1 3 7

6 8 5

Depth: 2

4 2 7

1 0 5

6 3 8

Depth: 4

4 2 7

1 0 5

6 3 8

Depth: 4

4 0 2

1 3 7

6 8 5

Depth: 3

4 2 7

3 0 5

1 6 8

Depth: 4

4 2 7

1 0 3

6 8 5

Depth: 2

4 2 7

1 5 0

6 3 8

Depth: 3

4 7 0

1 2 5

6 3 8

Depth: 4

4 2 7

1 0 5

6 3 8

Depth: 4

0 4 7

1 2 5

6 3 8

Depth: 4

0 2 7

4 1 5

6 3 8

Depth: 4

1 4 7

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6 3 8

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4 2 7

0 1 5

6 3 8

Depth: 5

4 2 7

3 6 5

1 0 8

Depth: 5

4 2 7

6 1 5

0 3 8

Depth: 4

4 2 7

0 1 3

6 8 5

Depth: 3

4 0 7

1 2 3

6 8 5

Depth: 3

4 2 7

1 3 0

6 8 5

Depth: 3

4 2 7

1 3 0

6 8 5

Depth: 3

4 2 7

1 3 5

0 6 8

Depth: 4

4 3 2

1 0 7

6 8 5

Depth: 4

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4 3 5

1 6 8

Depth: 4

4 2 0

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4 1 3

6 8 5

Depth: 4

4 2 7

1 8 3

6 5 0

Depth: 4

4 7 5

1 2 0

6 3 8

Depth: 5

4 3 2

0 1 7

6 8 5

Depth: 5

1 0 2

3 4 7

6 8 5

Depth: 7

4 0 2

1 3 7

6 8 5

Depth: 5

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3 4 7

6 8 5

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4 2 7

3 5 0

1 6 8

Depth: 5

4 3 2

1 7 0

6 8 5

Depth: 5

4 2 7

3 0 5

1 6 8

Depth: 6

4 3 2

1 7 5

6 8 0

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4 7 0

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4 3 2

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6 7 8

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6 7 8

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4 7 3

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6 8 0

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3 7 5

6 8 0

Depth: 8

2 0 7

4 1 3

6 8 5

Depth: 5

4 2 7

1 8 3

6 0 5

Depth: 5

1 4 2

3 7 5

6 0 8

Depth: 9

2 1 7

4 0 3

6 8 5

Depth: 6

4 7 5

1 0 2

6 3 8

Depth: 6

1 4 2

3 0 5

6 7 8

Depth: 10

2 1 7

0 4 3

6 8 5

Depth: 7

0 3 2

4 1 7

6 8 5

Depth: 6

1 0 2

3 4 5

6 7 8

Depth: 11

4 3 2

1 0 7

6 8 5

Depth: 6

0 1 2

3 4 5

6 7 8

Depth: 12

Solution found

0 1 2

3 4 5

6 7 8

Depth: 12

Total execution time: 7460ms

Total search cost (nodes generated): 453

Try again? Enter 1 for yes, other numbers for no

1

Enter 0 to write inputs,

Enter 1 to take input from a text file:

0

Enter 1 for h1 heuristic, 2 for h2 heuristic:

2

Enter unique numbers from 0 to 9

4 2 7 1 3 5 6 8 0

4 2 7

1 3 5

6 8 0

Depth: 0

4 2 7

1 3 5

6 0 8

Depth: 1

4 2 7

1 3 0

6 8 5

Depth: 1

4 2 7

1 3 5

6 8 0

Depth: 2

4 2 7

1 3 5

6 8 0

Depth: 2

4 2 0

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6 8 5

Depth: 6

0 2 7

4 1 5

6 3 8

Depth: 4

1 4 2

3 7 0

6 8 5

Depth: 7

1 0 2

3 4 7

6 8 5

Depth: 7

1 4 2

3 7 5

6 8 0

Depth: 8

0 1 2

3 4 7

6 8 5

Depth: 8

1 4 2

3 7 5

6 0 8

Depth: 9

1 4 2

3 0 5

6 7 8

Depth: 10

1 0 2

3 4 5

6 7 8

Depth: 11

0 1 2

3 4 5

6 7 8

Depth: 12

Solution found

0 1 2

3 4 5

6 7 8

Depth: 12

Total execution time: 10852ms

Total search cost (nodes generated): 63

Try again? Enter 1 for yes, other numbers for no

3

Bye!