

CS 4200 Project 1

Select:

[1] Single Test Puzzle

[2] Multi-Test Puzzle

[3] Exit

1

Select Input Method:

[1] Random

[2] File

1

Enter Solution Depth (2-20):

12

Puzzle:

1 5 4

7 6 2

0 3 8

Select H Function:

[1] H1

[2] H2

1

Solution Found

Step: 1

1 5 4

7 6 2

3 0 8

Step: 2

1 5 4

7 0 2

3 6 8

Step: 3

1 5 4

0 7 2

3 6 8

Step: 4

1 5 4

3 7 2

0 6 8

Step: 5

1 5 4

3 7 2
6 0 8

Step: 6
1 5 4
3 0 2
6 7 8

Step: 7
1 0 4
3 5 2
6 7 8

Step: 8
1 4 0
3 5 2
6 7 8

Step: 9
1 4 2
3 5 0
6 7 8

Step: 10
1 4 2
3 0 5
6 7 8

Step: 11
1 0 2
3 4 5
6 7 8

Step: 12
0 1 2
3 4 5
6 7 8

H1 Search Cost: 203
H2 Search Cost: 2343
H1 Time:
H2 Time:

Select:

[1] Single Test Puzzle
[2] Multi-Test Puzzle
[3] Exit

1

Select Input Method:

[1] Random
[2] File

1

Enter Solution Depth (2-20):

16

Puzzle:

0 3 5
6 2 4
7 8 1

Select H Function:

[1] H1
[2] H2

1

Solution Found

Step: 1

3 0 5
6 2 4
7 8 1

Step: 2

3 2 5
6 0 4
7 8 1

Step: 3

3 2 5
6 4 0
7 8 1

Step: 4

3 2 5
6 4 1
7 8 0

Step: 5

3 2 5
6 4 1
7 0 8

Step: 6

3 2 5

6 4 1

0 7 8

Step: 7

3 2 5

0 4 1

6 7 8

Step: 8

3 2 5

4 0 1

6 7 8

Step: 9

3 2 5

4 1 0

6 7 8

Step: 10

3 2 0

4 1 5

6 7 8

Step: 11

3 0 2

4 1 5

6 7 8

Step: 12

3 1 2

4 0 5

6 7 8

Step: 13

3 1 2

0 4 5

6 7 8

Step: 14

0 1 2

3 4 5

6 7 8

Search Cost: 416

Select:

[1] Single Test Puzzle

[2] Multi-Test Puzzle

[3] Exit

1

Select Input Method:

[1] Random

[2] File

1

Enter Solution Depth (2-20):

20

Puzzle:

3 6 2

7 1 5

8 4 0

Select H Function:

[1] H1

[2] H2

2

Solution Found

Step: 1

3 6 2

7 1 5

8 0 4

Step: 2

3 6 2

7 1 5

0 8 4

Step: 3

3 6 2

0 1 5

7 8 4

Step: 4

0 6 2

3 1 5

7 8 4

Step: 5

6 0 2

3 1 5

7 8 4

Step: 6

6 1 2

3 0 5

7 8 4

Step: 7

6 1 2

0 3 5

7 8 4

Step: 8

0 1 2

6 3 5

7 8 4

Step: 9

1 0 2

6 3 5

7 8 4

Step: 10

1 2 0

6 3 5

7 8 4

Step: 11

1 2 5

6 3 0

7 8 4

Step: 12

1 2 5

6 3 4

7 8 0

Step: 13

1 2 5

6 3 4

7 0 8

Step: 14

1 2 5

6 3 4

0 7 8

Step: 15

1 2 5

0 3 4

6 7 8

Step: 16

1 2 5

3 0 4

6 7 8

Step: 17

1 2 5

3 4 0

6 7 8

Step: 18

1 2 0

3 4 5

6 7 8

Step: 19

1 0 2

3 4 5

6 7 8

Step: 20

0 1 2

3 4 5

6 7 8

Search Cost: 1451

Select:

[1] Single Test Puzzle

[2] Multi-Test Puzzle

[3] Exit