```
"C:\Program Files\Java\jdk1.8.0_144\bin\java" ...
Welcome to 8-Puzzle Solver!
------------------------------
 What would you like to do?
     [1] Enter your own puzzle
     [2] Generate a puzzle
     [3] Quit
------------------------------
> 1


Please use the following format...
# # #
# # #
# # #
Now enter your puzzle:
3 1 2
8 6 7
0 4 5


-------------
 H1 Solution
-------------


3 1 2
8 6 7
0 4 5

3 1 2
8 6 7
4 0 5

3 1 2
8 0 7
4 6 5

3 1 2
0 8 7
4 6 5

3 1 2
4 8 7
0 6 5

3 1 2
4 8 7
6 0 5
```

```
3 1 2
4 0 7
6 8 5


3 1 2
4 7 0
6 8 5


3 1 2
4 7 5
6 8 0


3 1 2
4 7 5
6 0 8


3 1 2
4 0 5
6 7 8


3 1 2
0 4 5
6 7 8


0 1 2
3 4 5
6 7 8


Time Elapsed: 2508214
Nodes Generated: 158



-------------
 H2 Solution
-------------


3 1 2
8 6 7
0 4 5


3 1 2
0 6 7
8 4 5


3 1 2
6 0 7
8 4 5
```

```
3 1 2
6 4 7
8 0 5

3 1 2
6 4 7
0 8 5

3 1 2
0 4 7
6 8 5

3 1 2
4 0 7
6 8 5

3 1 2
4 7 0
6 8 5

3 1 2
4 7 5
6 8 0

3 1 2
4 7 5
6 0 8

3 1 2
4 0 5
6 7 8

3 1 2
0 4 5
6 7 8

0 1 2
3 4 5
6 7 8
```

Time Elapsed: 1336888
Nodes Generated: 63

 What would you like to do?
    [1] Enter your own puzzle
    [2] Generate a puzzle
    [3] Quit

```
------------------------------
> 1


Please use the following format...
# # #
# # #
# # #
Now enter your puzzle:
0 4 7
2 1 5
3 6 8


-------------
 H1 Solution
-------------


0 4 7
2 1 5
3 6 8

2 4 7
0 1 5
3 6 8

2 4 7
1 0 5
3 6 8

2 0 7
1 4 5
3 6 8

2 7 0
1 4 5
3 6 8

2 7 5
1 4 0
3 6 8

2 7 5
1 0 4
3 6 8

2 0 5
1 7 4
3 6 8
```

```
0 2 5
1 7 4
3 6 8

1 2 5
0 7 4
3 6 8

1 2 5
3 7 4
0 6 8

1 2 5
3 7 4
6 0 8

1 2 5
3 0 4
6 7 8

1 2 5
3 4 0
6 7 8

1 2 0
3 4 5
6 7 8

1 0 2
3 4 5
6 7 8

0 1 2
3 4 5
6 7 8
```

Time Elapsed: 6470376
Nodes Generated: 822

 H2 Solution

```
0 4 7
2 1 5
3 6 8
```

```
2 4 7
0 1 5
3 6 8

2 4 7
1 0 5
3 6 8

2 0 7
1 4 5
3 6 8

2 7 0
1 4 5
3 6 8

2 7 5
1 4 0
3 6 8

2 7 5
1 0 4
3 6 8

2 0 5
1 7 4
3 6 8

0 2 5
1 7 4
3 6 8

1 2 5
0 7 4
3 6 8

1 2 5
3 7 4
0 6 8

1 2 5
3 7 4
6 0 8

1 2 5
3 0 4
6 7 8
```

```
1 2 5
3 4 0
6 7 8

1 2 0
3 4 5
6 7 8

1 0 2
3 4 5
6 7 8

0 1 2
3 4 5
6 7 8
```

Time Elapsed: 1397424
Nodes Generated: 191

```
------------------------------
 What would you like to do?
     [1] Enter your own puzzle
     [2] Generate a puzzle
     [3] Quit
------------------------------
> 1
```

Please use the following format...
```
# # #
# # #
# # #
```
Now enter your puzzle:
```
6 3 0
8 7 1
5 2 4
```

```
-------------
 H1 Solution
-------------
```

```
6 3 0
8 7 1
5 2 4

6 3 1
8 7 0
5 2 4
```

```
6 3 1
8 7 4
5 2 0

6 3 1
8 7 4
5 0 2

6 3 1
8 7 4
0 5 2

6 3 1
0 7 4
8 5 2

6 3 1
7 0 4
8 5 2

6 3 1
7 4 0
8 5 2

6 3 1
7 4 2
8 5 0

6 3 1
7 4 2
8 0 5

6 3 1
7 4 2
0 8 5

6 3 1
0 4 2
7 8 5

0 3 1
6 4 2
7 8 5

3 0 1
6 4 2
7 8 5
```

```
3 1 0
6 4 2
7 8 5

3 1 2
6 4 0
7 8 5

3 1 2
6 4 5
7 8 0

3 1 2
6 4 5
7 0 8

3 1 2
6 4 5
0 7 8

3 1 2
0 4 5
6 7 8

0 1 2
3 4 5
6 7 8
```

Time Elapsed: 13442540
Nodes Generated: 4465

```
-------------
 H2 Solution
-------------

6 3 0
8 7 1
5 2 4

6 3 1
8 7 0
5 2 4

6 3 1
8 7 4
5 2 0
```

```
6 3 1
8 7 4
5 0 2


6 3 1
8 7 4
0 5 2


6 3 1
0 7 4
8 5 2


6 3 1
7 0 4
8 5 2


6 3 1
7 4 0
8 5 2


6 3 1
7 4 2
8 5 0


6 3 1
7 4 2
8 0 5


6 3 1
7 4 2
0 8 5


6 3 1
0 4 2
7 8 5


0 3 1
6 4 2
7 8 5


3 0 1
6 4 2
7 8 5


3 1 0
6 4 2
7 8 5
```

```
3 1 2
6 4 0
7 8 5

3 1 2
6 4 5
7 8 0

3 1 2
6 4 5
7 0 8

3 1 2
6 4 5
0 7 8

3 1 2
0 4 5
6 7 8

0 1 2
3 4 5
6 7 8

Time Elapsed: 760341
Nodes Generated: 227

------------------------------
 What would you like to do?
     [1] Enter your own puzzle
     [2] Generate a puzzle
     [3] Quit
------------------------------
> 3

Process finished with exit code 0
```