

Outputs

Run1:

```
---8 puzzle Solver---
Enter the start state matrix

1 2 3
_ 4 6
7 5 8
Enter the goal state matrix

1 2 3
4 5 6
7 8 _

      |
      |
    \'/

1 2 3
_ 4 6
7 5 8

      |
      |
    \'/

1 2 3
4 _ 6
7 5 8

      |
      |
    \'/

1 2 3
4 5 6
7 _ 8

      |
      |
    \'/

1 2 3
4 5 6
7 8 _

Number of moves:  3
```

Run 2:

```
---8 puzzle Solver---  
Enter the start state matrix
```

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

```
Enter the goal state matrix
```

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

```
|  
|  
\'/
```

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

```
|  
|  
\'/
```

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

```
|  
|  
\'/
```

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

```
|  
|  
\'/
```

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

```
|  
|  
\'/
```

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

```
|  
|  
\'/
```

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

```
|  
|  
\'/
```

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

```
Number of moves: 6
```

```
>>> |
```