```
PS D:\python> cd "d:\python"
PS D:\python> python -u "d:\python\misplaced_tiles.py"
Enter the initial state of the 8-puzzle (0 for empty space):
Enter row 1 (space-separated): 2 8 3
Enter row 2 (space-separated): 1 6 4
Enter row 3 (space-separated): 0 7 5
Initial State:
[2, 8, 3]
[1, 6, 4]
[0, 7, 5]
Solving using A* search:
Exploring state in A*:
[2, 8, 3]
[1, 6, 4]
[0, 7, 5]
Exploring state in A*:
[2, 8, 3]
[1, 6, 4]
[7, 0, 5]
Exploring state in A*:
[2, 8, 3]
[1, 0, 4]
[7, 6, 5]
Exploring state in A*:
[2, 0, 3]
[1, 8, 4]
[7, 6, 5]
```

```
Exploring state in A*:
[0, 2, 3]
[1, 8, 4]
[7, 6, 5]
Exploring state in A*:
[1, 2, 3]
[0, 8, 4]
[7, 6, 5]
Exploring state in A*:
[1, 2, 3]
[8, 0, 4]
[7, 6, 5]
A* Solution: ['right', 'up', 'up', 'left', 'down', 'right']
PS D:\python>
```

```
Enter the initial state of the 8-puzzle (0 for empty space):
 Enter row 1 (space-separated): 2 8 3
 Enter row 2 (space-separated): 1 6 4
ython\dataframe.py pace-separated): 0 7 5
[2, 8, 3]
[1, 6, 4]
[0, 7, 5]
Solving using A* search:
 Exploring state in A*:
 [2, 8, 3]
 [1, 6, 4]
 [0, 7, 5]
 Exploring state in A*:
 [2, 8, 3]
[1, 6, 4]
[7, 0, 5]
 Exploring state in A*:
[2, 8, 3]
[1, 6, 4]
[7, 5, 0]
 Exploring state in A*:
[2, 8, 3]
[0, 6, 4]
[1, 7, 5]
```

```
Exploring state in A*:
[2, 8, 3]
[1, 0, 4]
[7, 6, 5]

Exploring state in A*:
[2, 0, 3]
[1, 8, 4]
[7, 6, 5]

Exploring state in A*:
[0, 2, 3]
[1, 8, 4]
[7, 6, 5]

Exploring state in A*:
[1, 2, 3]
[0, 8, 4]
[7, 6, 5]

Exploring state in A*:
[2, 8, 3]
[1, 4, 0]
[7, 6, 5]

Exploring state in A*:
[2, 8, 3]
[1, 4, 0]
[7, 6, 5]

Exploring state in A*:
[2, 8, 3]
[1, 4, 6]
[7, 6, 6]
```

```
Exploring state in A*:
[2, 8, 3]
[1, 0, 4]
[7, 6, 5]
Exploring state in A*:
[2, 0, 3]
[1, 8, 4]
[7, 6, 5]
Exploring state in A*:
[0, 2, 3]
[1, 8, 4]
[7, 6, 5]
Exploring state in A*:
[1, 2, 3]
[0, 8, 4]
[7, 6, 5]
Exploring state in A*:
[2, 8, 3]
[1, 4, 0]
[7, 6, 5]
Exploring state in A*:
[2, 8, 3]
[1, 4, 5]
[7, 6, 0]
```

```
Exploring state in A*:
[2, 8, 3]
[1, 5, 6]
[7, 0, 4]
Exploring state in A*:
[2, 8, 3]
[1, 5, 6]
[7, 4, 0]
Exploring state in A*:
[0, 8, 3]
[2, 6, 4]
[1, 7, 5]
Exploring state in A*:
[1, 2, 3]
[7, 8, 4]
[0, 6, 5]
Exploring state in A*:
[1, 2, 3]
[7, 8, 6]
[0, 5, 4]
Exploring state in A*:
[1, 2, 3]
[8, 0, 4]
[7, 6, 5]
A* Solution: ['right', 'up', 'up', 'left', 'down', 'right']
```