

```
initial_state = [  
    [2, 8, 3],  
    [1, 6, 4],  
    [0, 7, 5]  
]  
  
goal_state = [  
    [1, 2, 3],  
    [8, 0, 4],  
    [7, 6, 5]  
]  
  
print("A* with Misplaced Tiles Heuristic")  
a_star(initial_state, goal_state)
```

```
A* with Misplaced Tiles Heuristic  
Goal reached with cost: 6
```

```
[4]: True
```

```
initial_state = [  
    [2, 8, 3],  
    [1, 6, 4],  
    [0, 7, 5]  
]  
  
goal_state = [  
    [1, 2, 3],  
    [8, 0, 4],  
    [7, 6, 5]  
]  
  
print("A* with Manhattan Distance Heuristic")  
a_star(initial_state, goal_state)
```

```
A* with Manhattan Distance Heuristic  
Goal reached with cost: 6
```

```
[2]: True
```