```
def print board(state):
def get_neighbors(state):
           new_state[x][y], new_state[nx][ny] = new_state[nx][ny], new_state[x][y]
           neighbors.append(new state)
def dfs(state, path, visited):
       return path
   for neighbor in get_neighbors(state):
       if str(neighbor) not in visited:
           result = dfs(neighbor, path + [neighbor], visited)
def solve puzzle(start):
   solution = solve puzzle(start state)
```

```
print("Solution path:")
  for step in solution:
     print_board(step)
else:
    print("No solution found.")
```

Solution path: 1 0 3 4 2 6 7 5 8	0 7 3 5 4 6 2 1 8	
0 1 3 4 2 6 7 5 8	5 7 3 0 4 6 2 1 8	
4 1 3 0 2 6 7 5 8	5 7 3 2 4 6 0 1 8	
4 1 3 7 2 6 0 5 8	5 7 3 2 4 6 1 0 8	
4 1 3 7 2 6 5 0 8	5 7 3 2 0 6 1 4 8	
4 1 3 7 0 6 5 2 8	5 0 3 2 7 6 1 4 8	
4 0 3 7 1 6 5 2 8	0 5 3 2 7 6 1 4 8	0 2 3 1 5 6
0 4 3 7 1 6 5 2 8	2 5 3 0 7 6 1 4 8	4 7 8
7 4 3 0 1 6 5 2 8	2 5 3 1 7 6 0 4 8	0 5 6 4 7 8 1 2 3
7 4 3 5 1 6 0 2 8	2 5 3 1 7 6 4 0 8	4 5 6 0 7 8
7 4 3 5 1 6 2 0 8	2 5 3 1 0 6 4 7 8	1 2 3 4 5 6 7 0 8
7 4 3 5 0 6 2 1 8	2 0 3 1 5 6 4 7 8	1 2 3 4 5 6 7 8 0