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In [17]: | def solve_n_queens():
    n=4
    def is_safe(board, row, col):
        for i in range(row):
             if board[i]== col or \
               board[i]-i==col- row or \
               board[i]+i== col+ row:
                 return False
        return True
    def solve(board, row):
        if row== n:
             result.append(board[:])
            return
        for col in range(n):
             if is_safe(board, row, col):
                board[row]=col
                 solve(board,row + 1)
                board[row]=-1
    result=[]
    solve([-1]*n, 0)
    return result
solutions=solve_n_queens()
print(f"Number of solutions for 8-Queens:{len(solutions)}")
for solution in solutions:
    print(solution)
Number of solutions for 8-Queens: 2
[1, 3, 0, 2]
[2, 0, 3, 1]
```

In []: