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[] ← C Share
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main.py
1 N = 8
 2
 3 - def printSolution(board):
 4 -
        for row in board:
5 +
            for i in range(N):
                print("Q" if row[i] else ".", end=" ")
 6
7
           print()
8
9 - def isSafe(board, row, col):
10 -
        for i in range(row):
11 -
            if board[i][col]:
12
               return False
13 -
        for i, j in zip(range(row - 1, -1, -1), range(col - 1, -1, -1)):
14 -
            if board[i][j]:
15
               return False
16 -
        for i, j in zip(range(row - 1, -1, -1), range(col + 1, N)):
17 -
            if board[i][j]:
18
                return False
19
        return True
20
21 - def solve(board, row):
22 -
       if row == N:
23
            printSolution(board)
24
            return True
25 -
       for col in range(N):
26 -
            if isSafe(board, row, col):
```

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                                                                      Run
main.py
        for i, j in zip(range(row - 1, -1, -1), range(col - 1, -1, -1)):
13 -
14 -
            if board[i][j]:
15
                return False
16 -
        for i, j in zip(range(row - 1, -1, -1), range(col + 1, N)):
            if board[i][j]:
17 -
18
                return False
19
        return True
20
21 - def solve(board, row):
22 -
        if row == N:
23
            printSolution(board)
24
            return True
25 -
        for col in range(N):
26 -
            if isSafe(board, row, col):
                board[row][col] = 1
27
28 -
                if solve(board, row + 1):
29
                    return True
                board[row][col] = 0
30
31
        return False
32
33 - def eightQueens():
        board = [[0 for _ in range(N)] for _ in range(N)]
34
35
        solve(board, 0)
36
37 eightQueens()
38
```

##