N = 8

def print\_solution(board):

for row in board:

print(" ".join("Q" if cell else "." for cell in row))

print()

def is\_safe(board, row, col):

for i in range(row):

if board[i][col]:

return False

for i, j in zip(range(row-1, -1, -1), range(col-1, -1, -1)):

if board[i][j]:

return False

for i, j in zip(range(row-1, -1, -1), range(col+1, N)):

if board[i][j]:

return False

return True

def solve(board, row):

if row == N:

print\_solution(board)

return True

res = False

for col in range(N):

if is\_safe(board, row, col):

board[row][col] = 1

res = solve(board, row + 1) or res

board[row][col] = 0

return res

board = [[0 for \_ in range(N)] for \_ in range(N)]

if not solve(board, 0):

print("No solution found.")

