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#Aim: To write Python program for 8 queens Problem
def is safe(board, row, col):
    for i in range(row):
        if board[i][col] == 1:
            return False
    for i, j in zip(range(row, -1, -1), range(col, -1, -1)):
        if board[i][j] == 1:
            return False
    for i, j in zip(range(row, -1, -1), range(col, len(board))):
        if board[i][j] == 1:
            return False
    return True
def solve queens (board, row):
   n = len(board)
    if row == n:
        return True
    for col in range(n):
        if is safe(board, row, col):
            board[row][col] = 1
            if solve queens (board, row + 1):
                return True
            board[row][col] = 0
    return False
def print solution(board):
    for row in board:
        print(" ".join(map(str, row)))
   print()
def solve 8 queens():
   board = [[0 for _ in range(8)] for _ in range(8)]
    if solve queens (board, 0):
        print("Solution found:")
        print solution(board)
    else:
        print("No solution exists")
solve 8 queens()
```