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DAA:- N queen
CODE:-
def is_safe(board, row, col, n):
  # Check if there is a queen in the same row on the left side
  for i in range(col):
    if board[row][i] == 1:
       return False
  # Check upper diagonal on the left side
  for i, j in zip(range(row, -1, -1), range(col, -1, -1)):
    if board[i][j] == 1:
       return False
  # Check lower diagonal on the left side
  for i, j in zip(range(row, n), range(col, -1, -1)):
    if board[i][j] == 1:
       return False
  return True
def solve_nqueens_util(board, col, n):
  if col >= n:
    return True
  for i in range(n):
    if is_safe(board, i, col, n):
       board[i][col] = 1
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if solve_nqueens_util(board, col + 1, n):
        return True
      # If placing the queen in board[i][col] doesn't lead to a solution
      # then remove the queen from board[i][col]
      board[i][col] = 0
  return False
def solve_nqueens(n):
  # Create an empty n x n chessboard
  board = [[0 for _ in range(n)] for _ in range(n)]
  if not solve_nqueens_util(board, 0, n):
    print("Solution does not exist")
    return False
  print_board(board)
  return True
def print_board(board):
  for row in board:
    print(" ".join(map(str, row)))
# Example usage for N=8
solve_nqueens(8)
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