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Implement N-Queens Problem as Constraints Satisfaction Problem.
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CODE:
def print_board(board):
  for row in board:
     print(" ".join(row))
def is_safe(board, row, col):
  for i in range(col):
     if board[row][i] == "Q":
       return False
for i, j in zip(range(row, -1, -1), range(col, -1, -1)):
     if board[i][j] == "Q":
       return False
  for i, j in zip(range(row, len(board), 1), range(col, -1, -1)):
     if board[i][j] == "Q":
       return False
  return True
def solve(board, col):
   if col >= len(board):
      return True
   for i in range(len(board)):
      if is_safe(board, i, col):
        board[i][col] = "Q"
        if solve(board, col+1):
          return True
        board[i][col] = "."
   return False
n = int(input("Enter the number of Queens: "))
board = [["." for i in range(n)] for j in range(n)]
if solve(board, 0):
  print_board(board)
else:
  print("Solution not fount")
OUTPUT:
Enter the number of Queens: 4
. . Q .
Q \dots
\dots Q
. Q . .
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