def solve(board=[], row=0):

if row == 8:

print\_board(board)

return True

for col in range(8):

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

board.append(col)

if solve(board, row + 1):

return True

board.pop()

return False

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

for r in range(row):

c = board[r]

if c == col or abs(c - col) == abs(r - row):

return False

return True

def print\_board(board):

for r in range(8):

line = ['Q' if board[r] == c else '.' for c in range(8)]

print(' '.join(line))

solve()

A screenshot of a computer

AI-generated content may be incorrect.