```
def is_safe(board, row, col, n):

  for i in range(col):
     if board[row][i] == 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, n), range(col, -1, -1)):
     if board[i][j] == 1: return False
  return True


def solve(board, col, n):
  if col >= n:
     print_board(board, n)
     return True
  for row in range(n):
     if is_safe(board, row, col, n):
        board[row][col] = 1
```

```
            if solve(board, col + 1, n): return True
            board[row][col] = 0
    return False

def print_board(board, n):
    for i in range(n):
        for j in range(n):
            print('Q' if board[i][j] == 1 else '.', end=' ')
        print()
    print()

def main():
    n = 8
    board = [[0]*n for _ in range(n)]
    if not solve(board, 0, n):
        print("No solution found.")
```

```
if __name__ == "__main__":
  main()
```