```
1. queen
N = 8 # (size of the chessboard)
def solveNQueens(board, col):
        if col == N:
                print(board)
                return True
        for i in range(N):
                if isSafe(board, i, col):
                         board[i][col] = 1
                         if solveNQueens(board, col + 1):
                                  return True
                         board[i][col] = 0
        return False
def isSafe(board, row, col):
        for x in range(col):
                if board[row][x] == 1:
                         return False
        for x, y in zip(range(row, -1, -1), range(col, -1, -1)):
                if board[x][y] == 1:
                         return False
        for x, y in zip(range(row, N, 1), range(col, -1, -1)):
                if board[x][y] == 1:
                         return False
        return True
board = [[0 for x in range(N)] for y in range(N)]
if not solveNQueens(board, 0):
        print("No solution found")
```