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In [4]:
#Number of queens
print ("Enter the number of queens")
N = int(input())
#chessboard
#NxN matrix with all elements 0
board = [[0]*N for _ in range(N)]
def is_attack(i, j):
    #checking if there is a queen in row or column
    for k in range (0, N):
        if board[i][k]==1 or board[k][j]==1:
            return True
    #checking diagonals
    for k in range(0,N):
        for 1 in range(0,N):
            if (k+l==i+j) or (k-l==i-j):
                if board[k][l]==1:
                     return True
    return False
def N queen(n):
    #if n is 0, solution found
    if n==0:
       return True
    for i in range(0,N):
        for j in range(0,N):
    '''checking if we can place a queen here or not
            queen will not be placed if the place is being attacked
            or already occupied'''
            if (not(is attack(i,j))) and (board[i][j]!=1):
                board[i][j] = 1
                 #recursion
                 #wether we can put the next queen with this arrangment or not
                 if N_queen(n-1) == True:
                    return True
                board[i][j] = 0
    return False
stat = N queen(N)
if stat == True:
    for i in board:
       print (i)
else:
  print("No result possible")
Enter the number of queens
[0, 1, 0, 0]
[0, 0, 0, 1]
[1, 0, 0, 0]
[0, 0, 1, 0]
In [ ]:
In [ ]:
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