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Assignment 5
global N
N = 4
def printSolution(board):
  for i in range(N):
     for j in range(N):
        print(board[i][j], end = " ")
     print()
def isSafe(board, row, col):
  # Check this row on left side
  for i in range(col):
     if board[row][i] == 1:
        return False
  # Check upper diagonal on left side
  for i, j in zip(range(row, -1, -1),
             range(col, -1, -1)):
     if board[i][j] == 1:
        return False
  # Check lower diagonal on left side
  for i, j in zip(range(row, N, 1),
             range(col, -1, -1)):
     if board[i][j] == 1:
        return False
  return True
def solveNQUtil(board, col):
  # base case: If all queens are placed
  # then return true
  if col >= N:
     return True
  # Consider this column and try placing
  # this queen in all rows one by one
  for i in range(N):
     if isSafe(board, i, col):
```

## Output:

```
input

in
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