#Array 2D - Uniformity Matrix

n=int(input())

a=[]

odd=True

even=True

for i in range(n):

L=list(map(int,input().split()))

a.append(L)

for i in range(n):

for j in range(n):

if a[i][j]%2==0:

even=False

if a[i][j]%2!=0:

odd=False

if odd or even:

print("Yes")

else:

print("No")

#Arrays 2D - Matrix Rotation

n=int(input())

arr=[]

for i in range(n):

L=list(map(int,input().split()))

arr.append(L)

transpose=[[arr[i][j] for i in range(n)]for j in range(n)]

for i in transpose:

i.reverse()

for i in range(n):

for j in range(n):

print(transpose[i][j],end=" ")

print()