row = int(input("Enter the number of rows:"))

col = int(input("Enter the number of columns:"))

a = []

matrixa = []

matrixb = []

result = []

print("Enter the entries rowwise:")

# For user input

for i in range(row):

a = []

for j in range(col):

a.append(int(input()))

matrixa.append(a)

for i in range(row):

for j in range(col):

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

print()

for i in range(col):

a = []

for j in range(row):

a.append(0)

result.append(a)

for i in range(row):

for j in range(col):

result[j][i] = matrixa[i][j]

print("Result matrix for transpose of matrix is:")

for i in range(col):

for j in range(row):

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

print()