def spiralprint(arr):

rows=len(arr)

cols=len(arr[0])

startRow,startCol,endRow,endCol=0,0,rows-1,cols-1

while startRow<=endRow and startCol<=endCol:

for j in range(startCol,endCol+1):

print(arr[startRow][j],end=' ')

startRow+=1

if startRow>endRow or startCol>endCol:

break

for i in range(startRow,endRow+1):

print(arr[i][endCol],end=' ')

endCol-=1

if startRow>endRow or startCol>endCol:

break

for j in range(endCol,startCol-1,-1):

print(arr[endRow][j],end=' ')

endRow-=1

if startRow>endRow or startCol>endCol:

break

for i in range(endRow,startRow-1,-1):

print(arr[i][startCol],end=' ')

startCol+=1

l=[int(i) for i in input().strip().split(' ')]

m,n=l[0],l[1]

arr=[ [ l[(j\*n)+i+2] for i in range(n)] for j in range (m)]

spiralprint(arr)