

```

n=int(input())
matrix=[]
for x in range(n):
    matrix.append(list(map(int,input().split())))
for i in range(n):
    for j in range(n):
        print(matrix[i][j],end=" ")
    print()
rows = len(matrix)
cols = len(matrix[0])
for col in range(cols):
    if col % 2 == 0:
        for row in range(rows):
            print(matrix[row][col], end=" ")
    else:
        for row in range(rows - 1, -1, -1):
            print(matrix[row][col], end=" ")

```

```

n=int(input())
arr=[]
for x in range(n):
    arr.append(list(map(int,input().split())))
for i in range(n):
    for j in range(n):
        print(arr[i][j],end=" ")
    print()
rows = len(arr)
cols = len(arr[0])

```

```
for start_col in range(cols):  
    row = 0  
    col = start_col  
    while row < rows and col >= 0:  
        print(arr[row][col], end=" ")  
        row += 1  
        col -= 1  
    print()  
for start_row in range(1, rows):  
    row = start_row  
    col = cols - 1  
    while row < rows and col >= 0:  
        print(arr[row][col], end=" ")  
        row += 1  
        col -= 1  
    print()
```