

Try to solve this coding problem in your preferred programming language: Traverse the matrix Spirally. Try with different test cases.

Sample Output

Input

4

4

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

Output

1 2 3 4 8 12 16 15 14 13 9 5 6 7 11 10

Code

```
import java.util.*;
public class TestClass {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        int i,j;
        int m=sc.nextInt();
        int n=sc.nextInt();
        int[][] arr=new int[m][n];
        for(i=0;i<m;i++)
        {
            for(j=0;j<n;j++)
            {
                arr[i][j]=sc.nextInt();
            }
        }
        int k=0,l=0;
        while(k<m&& l<n)
        {
            for(i=l;i<n;i++)
```

```

{
    System.out.print(arr[k][i]+" ");
}
k++;
for(i=k;i<m;i++)
{
    System.out.print(arr[i][n-1]+" ");
}
n--;
if(k+1<m)
{
    for(i=n-1;i>=0;--i)
    {
        System.out.print(arr[m-1][i]+" ");
    }
    m--;
}
if(l+1<n)
{
    for(i=m-1;i>=k;i--)
    {
        System.out.print(arr[i][l]+" ");
    }
    l++;
}
}
}

```