**Spirally traversing a matrix 2**

Given a matrix of size r\*c. Traverse the matrix in spiral form.



Input Format :

The first line contains two integers r,c.

The next r lines contains, r\*c space separated integers matrix[i][j].

Constraints :

1 <= r, c <= 100

0 <= matrix[i][j] <= 100

Output Format :

A single line containing r\*c space-separated integers from matrix, traversed in spiral form.

Sample Input 0

4 4

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

Sample Output 0

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

Sample Input 1

2 2

9 4

5 6

Sample Output 1

9 4 6 5

Solution :

#include<iostream>

using namespace std;

int main()

{

int n,m;

cin>>n>>m;

int a[m][n];

for(int i=0; i<n; i++){

for(int j=0; j<m; j++){

cin>>a[i][j];

}

}

int k=0, l=0, i=0;

while (k < m && l < n)

{

for (i = l; i < n; ++i){

cout << a[k][i] << " ";

}

k++;

for (i = k; i < m; ++i) {

cout << a[i][n - 1] << " ";

}

n--;

if (k < m) {

for (i = n - 1; i >= l; --i) {

cout << a[m - 1][i] << " ";

}

m--;

}

if (l < n) {

for (i = m - 1; i >= k; --i) {

cout << a[i][l] << " ";

}

l++;

}

}

}