

Elite-S007-Matrix TraversalSolved Challenges **0/2**[Back To Challenges List](#)**Spiral Matrix Printing - Clockwise****ID:10773 Solved By 583 Users**

The program must accept an integer matrix of size **R*C** as the input. The program must print the layers of the matrix in spiral format as shown in the Example Input/Output section.

Boundary Condition(s):

2 <= R, C <= 50

Input Format:

The first line contains R and C separated by a space.

The next R lines, each contains C integers separated by a space.

Output Format:

The first line contains R*C values separated by a space.

Example Input/Output 1:

Input:

```
6 5
1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20
21 22 23 24 25
26 27 28 29 30
```

Output:

```
1 2 3 4 5 10 15 20 25 30 29 28 27 26 21 16 11 6 7 8 9 14 19 24 23 22 17 12 13 18
```

Example Input/Output 2:

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
```

Example Input/Output 3:

Input:

```
5 4
1 2 3 4
5 6 7 8
```

9 21 22 23
24 25 26 27
28 29 30 31

Output:
1 2 3 4 8 23 27 31 30 29 28 24 9 5 6 7 22 26 25 21

Max Execution Time Limit: 500 millisecs

Ambiance

C (gcc 8.x) ▾



Reset

```
1  #include<stdio.h>
2  #include<stdlib.h>
3
4  int main()
5  {
6      int R,C;
7      scanf("%d%d",&R,&C);
8      int matrix[R][C];
9      for(int row=0;row<R;row++)
10         for(int col=0;col<C;col++)
11             scanf("%d",&matrix[row][col]);
12
13     int startRow=0;
14     int endRow=R-1;
15     int startCol=0;
16     int endCol=C-1;
17
18     while(startRow<=endRow && startCol<=endCol)
19     {
20         //L->R
21         for(int col = startCol;col<=endCol;col++)
22             printf("%d ",matrix[startRow][col]);
23
24         //T->B
25         for(int row = startRow+1;row<=endRow;row++)
26             printf("%d ",matrix[row][endCol]);
27
28         if(startRow!=endRow)
29         {
30             //R->L
31             for(int col = endCol-1;col>=startCol;col--)
32                 printf("%d ",matrix[endRow][col]);
33         }
34
35         if(startCol!=endCol)
36         {
37             //B->T
38             for(int row = endRow-1;row>=startRow+1;row--)
39                 printf("%d ",matrix[row][startCol]);
40         }
41
42         startRow++;
43         endRow--;
44         startCol++;
45         endCol--;
46
47     }
48
49 }
```

Code did not pass the execution

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**Hello.c: In function 'main':****Hello.c:35:22: error: 'endcol' undeclared (first use in this function); did you mean 'endCol'?****if(startCol!=endcol)****^~~~~~****endCol****Hello.c:35:22: note: each undeclared identifier is reported only once for each function it appears in**

Save

Run

☐ Run with a custom test case (Input/Output)