

**Elite-S007-Matrix Traversal**Solved Challenges **1/2**[Back To Challenges List](#)**Spiral Matrix Printing - Anti Clockwise****ID:11053    Solved By 496 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 (Anti Clockwise) 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 6 11 16 21 26 27 28 29 30 25 20 15 10 5 4 3 2 7 12 17 22 23 24 19 14 9 8 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 5 9 13 14 15 16 12 8 4 3 2 6 10 11 7
```

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

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
9      int matrix[R][C];
10
11     for(int row=0;row<R;row++)
12         for(int col=0;col<C;col++)
13             scanf("%d",&matrix[row][col]);
14
15     int startRow = 0;
16     int endRow = R-1;
17     int startCol = 0;
18     int endCol = C-1;
19
20     while(startRow<=endRow && startCol<=endCol)
21     {
22         //T->B
23         for(int row=startRow;row<=endRow;row++)
24             printf("%d ",matrix[row][startCol]);
25
26         //L->R
27         for(int col=startCol+1;col<=endCol;col++)
28             printf("%d ",matrix[endRow][col]);
29
30         if(startCol!=endCol)
31         {
32             //B->T
33             for(int row=endRow-1;row>=startRow;row--)
34                 printf("%d ",matrix[row][endCol]);
35         }
36
37         if(startRow!=endRow)
38         {
39             //R->L
40             for(int col=endCol-1;col>=startCol+1;col--)
41                 printf("%d ",matrix[startRow][col]);
42         }
43
44         startRow++;
45         endRow--;
46         startCol++;
47         endCol--;
48
49     }
50 }
```

**Code did not pass the execution**

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**Hello.c: In function 'main':****Hello.c:15:5: error: 'startRow' undeclared (first use in this function); did you mean 'strtoq'?**`startRow = 0;``^~~~~~``strtoq`**Hello.c:15:5: note: each undeclared identifier is reported only once for each function it appears in****Hello.c:16:5: error: 'endRow' undeclared (first use in this function)**`endRow = R-1;``^~~~~~`**Hello.c:17:5: error: 'startCol' undeclared (first use in this function); did you mean 'strtol'?**`startCol = 0;``^~~~~~``strtol`**Hello.c:18:5: error: 'endCol' undeclared (first use in this function)**`endCol = C-1;``^~~~~~`

Save

Run

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