



📘 **Code Saved Successfully!!**

Elite-S030-Matrix Zig-Zag

Solved Challenges **1/2**

[Back To Challenges List](#)



Matrix Zig-Zag from Bottom Right

ID:11126 **Solved By 514 Users**

The program must accept an integer matrix of size **R*C** as the input. The program must print the elements from the bottom right of the matrix in diagonally zig-zag order.

Boundary Condition(s):

2 <= R, C <= 100

Input Format:

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

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

Output Format:

The first line contains all R*C elements in diagonally zig-zag order, with the elements separated by a space.

Example Input/Output 1:

Input:

3 7

44 23 14 62 34 24 29
18 66 22 77 14 51 60
13 67 35 26 34 40 72

Output:

72 60 40 34 51 29 24 14 26 35 77 34 62 22 67 13 66 14 23 18 44

Example Input/Output 2:

Input:

4 4
6 7 5 8
8 3 2 1
9 1 2 6
5 4 5 1

Output:

1 6 5 4 2 1 8 2 1 5 9 3 5 7 8 6

Max Execution Time Limit: 500 millisecs

Ambiance

C (gcc 8.x) ▼



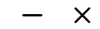
Reset

```
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
```

```
10 for(int row=0;row<R;row++)
11     for(int col=0;col<C;col++)
12         scanf("%d",&matrix[row][col]);
13
14 int dir=1,row=R-1,col=C-1;
15
16 for(int iter=1;iter<=R+C-1;iter++)
17 {
18     if(dir==1)
19     {
20         while(row>=0 && col<C)
21         {
22             printf("%d ",matrix[row][col]);
23             row--;
24             col++;
25         }
26         dir=-1;
27         if(row<0)
28         {
29             row=0;
30             col=col-2;
31         }
32         if(col>=C && row>=0)
33         {
34             col=C-1;
35         }
36     }
37     else
38     {
39         while(col>=0 && row<R)
40         {
41             printf("%d ",matrix[row][col]);
42             row++;
43             col--;
44         }
45         dir=1;
46         if(col<0)
47         {
```

```
48         col=0;
49         row-=2;
50     }
51     if(row>=R) |
52     {
53         row=R-1;
54     }
55
56
57 }
```

Code did not pass the execution



TestCase ID: 63928

Input:

```
3 7
44 23 14 62 34 24 29
18 66 22 77 14 51 60
13 67 35 26 34 40 72
```

Expected Output:

```
72 60 40 34 51 29 24 14 26 35 77 34 62 22 67 13 66 14 23 18 44
```

Your Program Output:

72 60 40 34 51 29 34 77 35 67 22 62 14 66 13 44

Save

Run

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