

**Elite-S010-Pattern**Solved Challenges **0/2**[Back To Challenges List](#)**Vertical Zig-Zag Pattern****ID:11072    Solved By 748 Users**

The program must accept an integer **N** as the input. The program must print the desired pattern as shown in the Example Input/Output section.

**Boundary Condition(s):** $2 \leq N \leq 50$ **Input Format:**

The first line contains N.

**Output Format:**

The first N lines contain the desired pattern as shown in the Example Input/Output section.

**Example Input/Output 1:**

Input:

5

Output:

1 10 11 20 21

2 9 12 19 22

3 8 13 18 23

4 7 14 17 24

5 6 15 16 25

**Example Input/Output 2:**

Input:

4

Output:

1 8 9 16

2 7 10 15

3 6 11 14

4 5 12 13

**Max Execution Time Limit: 500 millisecs** [Reset](#)

```
1  #include<stdio.h>
2  #include<stdlib.h>
3
4  int main()
5  {
6      int N;
7      scanf("%d",&N);
8      int down = 0;
9      int up = 0;
10     for(int row=1;row<=N;row++)
11     {
12         down = ((N-row)*2) + 1;
13         up = ((row-1)*2) + 1;
14         int val =row;
15         for(int col = 1;col<=N;col++)
16         {
17             printf("%d ",val);
18             if(col%2!=0)
19                 val+=down;
20             else
21                 val+=up;
22         }
23         printf("\n");
24     }
25 }
```

Code did not pass the execution



Your Program Output:

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

Save

Run

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