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Numerical Pattern

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Problem

Submissions

Leaderboard

Write a program to print the following pattern: For example, $n = 4$; Output:

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

Input Format

1. Take an integer n as the number of rows

Constraints

1. $0 < n < 10000$

Output Format

[f](#) [t](#) [in](#)

Submissions: 39

Max Score: 20

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1. It should print the n rows of pattern

Sample Input 0

4

Sample Output 0



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

Sample Input 1

7

Sample Output 1

```
1*2*3*4*5*6*7
15*16*17*18*19*20*21
29*30*31*32*33*34*35
43*44*45*46*47*48*49
36*37*38*39*40*41*42
22*23*24*25*26*27*28
8*9*10*11*12*13*14
```

Current Buffer (saved locally, editable)  

C++



```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     int n;
11     cin>>n;
12     int a[n][n];
13     int k=1;
14     for(int i=0;i<n;i++)
15     {
16         for(int j=0;j<n;j++)
17             a[i][j]=k++;
18     }
19     bool flag=true;
20     for(int i=0;i<n;i++)
21     {
22         if(flag)
23         {
24             for(int j=0;j<n;j++)
25             {
26                 if(j!=n-1)
27                     cout<<a[i][j]<<"*";
28                 else
29                     cout<<a[i][j]<<"\n";
30             }
31         }
32         flag=!flag;
33     }
34     if(n%2==0) flag=false;
35     else flag=true;
```

```
36
37     for(int i=n-1;i>0;i--)
38     {
39         if(flag==false)
40         {
41             for(int j=0;j<n;j++)
42             {
43                 if(j!=n-1)
44                     cout<<a[i][j]<<"*";
45                 else
46                     cout<<a[i][j]<<"\n";
47             }
48         }
49         flag=!flag;
50     }
51
52
53
54
55
56     return 0;
57 }
58
```

Line: 1 Col: 1

 [Upload Code as File](#) ☐ Test against custom input

[Run Code](#)[Submit Code](#)Testcase 0 Testcase 1 

Congratulations, you passed the sample test case.

Click the **Submit Code** button to run your code against all the test cases.

Input (stdin)

```
4
```

Your Output (stdout)

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

Expected Output

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

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