PRACTICE   COMPETE   JOBS   LEADERBOARD   Search   swatantragoswam1 ⌄

All Contests > e4csd > Pattern (patr1)

Pattern (patr1)

| Problem | Submissions | Leaderboard | Discussions |

For a given n, you've to print the following pattern.

Contest ends in an hour

Submissions: 41
Max Score: 20
Difficulty: Medium

Rate This Challenge:
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More

Examples :

```
Input : 5
Output :
    1
   1*2
  1*2*3
   1*2
    1


Input : 9
Output :
      1
     1*2
    1*2*3
   1*2*3*4
  1*2*3*4*5
   1*2*3*4
    1*2*3
     1*2
      1
```

Input Format

One integer N 1<=N<=1000000

Constraints

N 1<=N<=1000000

Output Format

Pattern

Sample Input 0

```
5
```

Sample Output 0

```
    1
   1*2
  1*2*3
   1*2
    1
```

Sample Input 1

```
9
```

Sample Output 1

```
        1
       1*2
      1*2*3
     1*2*3*4
    1*2*3*4*5
     1*2*3*4
      1*2*3
       1*2
        1
```

Current Buffer (saved locally, editable)   C++

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;

void f(int n)
{
    // int s=n-1;

    for(int i=1;i<=n;i++)
    {
        // int c=1;
        for(int j=n;j>i;j--)
            cout<<" ";
        for(int j=1;j<i;j++)
            cout<<j<<"*";

        cout<<i<<"\n";
        // s--;
    }
    // s=0;

    for(int i=n-1;i>=1;i--){
        // int c=1;
    for(int j=n;j>i;j--)
        cout<<" ";
    for(int j=1;j<i;j++)
        cout<<j<<"*";
    cout<<i<<"\n";
        // s++;
    }
```

```
34  }
35 ▾int main() {
36      int n;
37      cin>>n;
38      n=n/2+1;
39      f(n);
40      return 0;
41  }
42
```

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)

```
5
```

Your Output (stdout)

```
   1
  1*2
 1*2*3
  1*2
   1
```

Expected Output

```
    1
   1*2
  1*2*3
   1*2
    1
```