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Buritomath

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# Staircase

by [vatsalchanana](#)

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Consider a staircase of size  $n = 4$ :

```
#
##
###
####
```

Observe that its base and height are both equal to  $n$ , and the image is drawn using `#` symbols and spaces. *The last line is not preceded by any spaces.*

Write a program that prints a staircase of size  $n$ .

## Input Format

A single integer,  $n$ , denoting the size of the staircase.

## Output Format

Print a staircase of size  $n$  using `#` symbols and spaces.

**Note:** The last line must have `0` spaces in it.

## Sample Input

```
6
```

## Sample Output

```
      #
     ##
    ###
   ####
  #####
 #####
```

## Explanation

The staircase is right-aligned, composed of `#` symbols and spaces, and has a height and width of  $n = 6$ .

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Max Score: 10


Difficulty: Easy

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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, i, j;
11     cin >> n;
12     for (i = 0; i < n; i++) {
13         for (j = 1; j < n - i; j++) {
14             cout << ' ';
15         }
16         for (; j <= n; j++) {
17             cout << '#';
18         }
19         cout << endl;
20     }
21     return 0;
22 }
23
24
```

Line: 1 Col: 1

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