

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 $n = 6$.