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.

Function Description

Complete the *staircase* function in the editor below. It should print a staircase as described above.

staircase has the following parameter(s):

- *n*: an integer

Input Format

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

Constraints

$0 < n \leq 100$.

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 $n = 6$.