

Staircase



Your teacher has given you the task of drawing a staircase structure. Being an expert programmer, you decided to make a program to draw it for you instead. Given the required height, can you print a staircase as shown in the example?

Input

You are given an integer N depicting the height of the staircase.

Output

Print a staircase of height N that consists of $\#$ symbols and spaces. For example for $N = 6$, here's a staircase of that height:

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

Note: The last line has 0 spaces before it.