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# Trees — Width

Write a program that reads the shape of various binary trees, and prints the width of each one. We define the width of a tree as the maximal number of nodes that has at any of its levels (or zero, if the tree is empty).

## Input

Input starts with m, the number of trees that must be treated. The description of the m trees follow as explained at problem "Trees — Recursive traversal", with an exception: All the values are 0, because the content of the nodes here is not important.

## Output

Your program must print the width of each given tree.

#### Sample input

2 0 0 0 -1 0 -1 -1 0 -1 -1 0 0 -1 -1 0 0 -1 0 -1 -1 -1 0 0 0 -1 -1 -1 -1

#### Sample output

4 1

## **Problem information**

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