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The Virtual Learning Environment for Computer Programming

## Trees - Height

P61120_en
Write a program that reads the shape of various binary trees, and prints the height of each one. We define the height of a tree as the maximal number of nodes of the paths that go from the root to each leaf (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 height of each given tree.

## Sample input

2
$0 \begin{array}{llllllllllllllllllllll} & 0 & 0 & -1 & 0 & -1 & -1 & 0 & -1 & -1 & 0 & 0 & -1 & -1 & 0 & 0 & -1 & 0 & -1 & -1 & -1\end{array}$
$0 \begin{array}{llllll}0 & -1 & 0 & -1 & 0 & -1\end{array}-1$

## Sample output

5
3

## Problem information

Author : Jordi Petit i Salvador Roura
Translator: Jordi Petit
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