Depth of a list   X62244_en

The depth of a list t is the maximum number of nestings of lists that it contains. For example, the depth of $[a, b, c]$ is 1, the depth of $[a, [b, c], d]$ is 2, and the depth of $[[[a]]]$ is 3. The depth of $[]$ is defined to be 0.

Write a program that prints the depth of every given list.

Define and use a recursive function

$depth(t)$

that returns the depth of a list t.

Hint

Using the *ast* package, you can extract the list t encoded in a string s with $t = ast.literal\_eval(s)$.

Input

The input consists of several lists.

Output

Print the depth of every given list.

Sample input

```
[]
['a', 'b', 'c']
['a', ['b', 'c'], 'd']
[[['a']]]
```

Sample output

```
0
1
2
3
```

Problem information

Author : Gabriel Valiente
Generation : 2019-10-27 09:43:50

© *Jutge.org*, 2006–2019.
https://jutge.org