Maximum of a list   X40606_en

The maximum of a list t is the largest element that it contains. For example, the maximum of $[1, 2, 3]$ is 3, the maximum of $[1, [2, 3], 4]$ is 4, and the maximum of $[[[1]]]$ is 1. The maximum of $[]$ is defined to be 0.

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

Define and use a recursive function

  maximum(t)

that returns the maximum 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 of non-negative numbers.

Output

Print the maximum of every given list.

Sample input

```
[]
[1, 2, 3]
[1, [2, 3], 4]
[[[1]]]
```

Sample output

```
0
3
4
1
```

Problem information

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