## Maximum element of an array

Given an array of $\mathbf{n}$ integers, find the value of its maximum element.

## Input

The input consists of several test cases.
Each test case is described in two lines. The first line contains $\mathbf{n}$, the size of the array ( $1<=\mathbf{n}<=$ $10^{6}$ ). The second line contains $\mathbf{n}$ integers separated by one or more spaces. Each integer in the array will be between $-10^{9}$ and $10^{9}$, inclusive.

The last line of the input contains a single 0 and should not be processed.

## Output

For each test case, write the maximum element in the array on a single line.

## Example

```
Input:
4
1234
2
-1 0
3
-1000000000 0 1000000000
0
```

Output:
4
0
1000000000

