Maximum element of an array

Given an array of **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 -10⁹ and 10⁹, 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
1 2 3 4
2
-1 0
3
-1000000000 0 1000000000
```

Output:

4 0 1000000000