

# Second-highest Number

Given a sequence of n integers  $a_1, a_2, \dots, a_n$ . Find the second-highest item of  $a_i$  ( $i = 1 \dots n$ ).

## Input

Line 1: contains the integer n ( $1 \leq n \leq 10^6$ ).

Line 2 to  $n + 1$ : ( $i + 1$ )-th line contains the integer  $a_i$  ( $|a_i| \leq 10^9$ )

## Output

Only one line contains the second-highest item of  $a_i$ .

## Example

### Input:

```
3
1
2
3
```

### Output:

```
2
```