

# Maximum Element

## Problem Statement

You have an empty sequence, and you will be given  $N$  queries. Each query is one of these three types:

- 1

$x$  -Push the element  $x$  into the stack.
- 2

-Delete the element present at the top of the stack.
- 3

-Print the maximum element in the stack.

## Input Format

The first line of input contains an integer,  $N$ . The next  $N$  lines each contain an above mentioned query. *(It is guaranteed that each query is valid.)*

## Constraints

- $1 \leq N \leq 10^5$
- $1 \leq x \leq 10^9$
- $1 \leq \text{type} \leq 3$

## Output Format

For each type 3 query, print the maximum element in the stack on a new line.

## Sample Input

```
10
1 97
2
1 20
2
1 26
1 20
2
3
1 91
3
```

## Sample Output

```
26
91
```