



# Maximum Element

by [saikiran9194](#)

Problem

Submissions

Leaderboard

Discussions

Editorial

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
```

[f](#) [t](#) [in](#)Submissions: [39217](#)

Max Score: 20

Difficulty: Easy

Rate This Challenge:

Current Buffer (saved locally, editable)  

C++   

```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
13
```

Line: 1 Col: 1

 [Upload Code as File](#)☐ Test against custom input

Run Code

Submit Code

Join us on IRC at [#hackerrank](#) on freenode for hugs or bugs.

[Contest Calendar](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Request a Feature](#)