

Maximum Element

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.
```

Function Description

Complete the *getMax* function in the editor below.

getMax has the following parameters:

- *string operations[n]*: operations as strings

Returns

- *int[]*: the answers to each type 3 query

Input Format

The first line of input contains an integer, n . The next n lines each contain an above mentioned query.

Constraints

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- $1 \leq n \leq 10^5$
- $1 \leq x \leq 10^9$
- $1 \leq type \leq 3$

All queries are valid.

Sample Input

STDIN	Function
-----	-----
10	operations[] size n = 10
1 97	operations = ['1 97', '2', '1 20',]
2	
1 20	
2	
1 26	
1 20	
2	
3	
1 91	
3	

Sample Output

```
26
91
```