You have an empty sequence, and you will be given 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,

. The next

lines each contain an above mentioned query.

### **Constraints**

1<=n<=10<sup>5</sup>

1<=x<=109

1<=type<=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