Problem AC. Sets-STL

OS Linux

Sets are a part of the C++ STL. Sets are containers that store unique elements following a specific order. Here are some of the frequently used member functions of sets:

- *Declaration:*

```
set<int>s; //Creates a set of integers.
```

- *Size:*

```
int length=s.size(); //Gives the size of the set.
```

- *Insert:*

```
s.insert(x); //Inserts an integer x into the set s.
```

- *Erasing an element:*

```
s.erase(val); //Erases an integer val from the set s.
```

- *Finding an element:*

```
set<int>::iterator itr=s.find(val); //Gives the iterator to the element
val if it is found otherwise returns s.end() .
Ex: set<int>::iterator itr=s.find(100); //If 100 is not present then
it==s.end().
```

To know more about sets click Here. Coming to the problem, you will be given Q queries. Each query is of one of the following three types:

$1\ x$: Add an element x to the set.
$2\ x$: Delete an element x from the set. (If the number x is not present in the set, then do nothing).
$3\ x$: If the number x is present in the set, then print "Yes"(without quotes) else print "No" (without quotes).

Input Format

The first line of the input contains Q where Q is the number of queries. The next Q lines contain 1 query each. Each query consists of two integers y and x where y is the type of the query and x

is an integer.

Constraints

$1 <= Q <= 10^5$
$1 <= y <= 3$
$1 <= x <= 10^9$

Output Format

For queries of type 3 print "Yes"(without quotes) if the number x is present in the set and if the number is not present, then print "No"(without quotes).
Each query of type 3 should be printed in a new line.

Sample Input

```
8
1 9
1 6
1 10
1 4
3 6
3 14
2 6
3 6
```

Sample Output

```
Yes
No
No
```