# Sets-STL



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  $\bf 3$  print "Yes" (without quotes) if the number  $\bf x$  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**

19			
1 6			
1 10			
1 4			
3 6			
3 14			
2 6			
3 6			

## **Sample Output**

Yes			
Yes No No			
No			