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# Sets-STL **■**



by saikiran9194

Problem

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Discussions

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:

 $\boldsymbol{1}\,\boldsymbol{x}$ : Add an element  $\boldsymbol{x}$  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  $\boldsymbol{y}$  and  $\boldsymbol{x}$  where  $\boldsymbol{y}$  is the type of the query and  $\boldsymbol{x}$  is an integer.

# **Constraints**

$$1 <= Q <= 10^5$$

$$1 <= y <= 3$$

$$1 <= x <= 10^9$$

#### **Output Format**

3/17/2018 HackerRank

For queries of type  $\bf 3$  print "Yes" (without quotes) if the number  $\bf z$  is present in the set and if the number is not present, then print "No" (without

Each query of type 3 should be printed in a new line.

## **Sample Input**

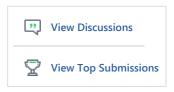
- 8 1 9
- 1 6
- 1 10
- 3 6 3 14
- 2 6
- 3 6
- **Sample Output**

Yes

No No



## Need Help?



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```
Current Buffer (saved locally, editable) & 🗗
                                                                                         C++
                                                                                                                           \Diamond
15 ▼ #include <iostream>
16 #include <set>
17
   #include <algorithm>
   #include <cassert>
19
    typedef long long int int64;
20
21
   int main()
22 ▼ {
        std::set<int64> Set;
23
24
        int Q; std::cin>>Q;
25
26
        while(Q--)
27 🔻
28
            int query;
29
            int64 val;
30
            std::cin >> query >> val;
            assert((query>=1) && (query<=3));</pre>
31
32
33
            if(query==1)
34 '
35
                 Set.emplace(val);
```

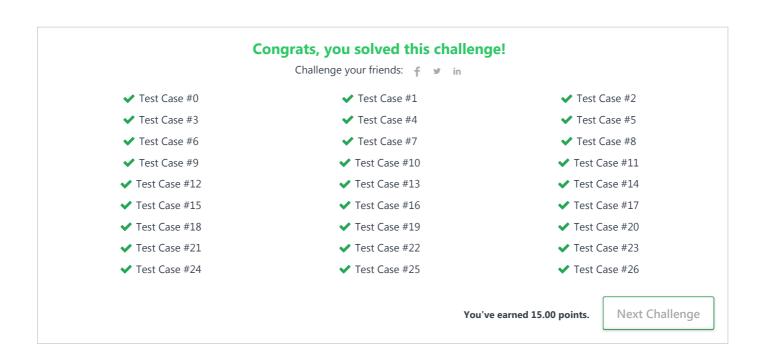
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```
36
37
             else if(query==2)
38 ▼
             {
                 if(Set.find(val) != Set.cend())
39
                     Set.erase( (Set.find(val)) );
40
41
             }
42
             else
43 ▼
             {
                 (Set.find(val) != Set.cend())
44
                     std::cout<<"Yes"<<std::endl:</pre>
45
                      std::cout<<"No"<<std::endl;</pre>
46
47
             }
48
49
        return 0;
50
    }
51
                                                                                                                    Line: 51 Col: 1
```

<u>♣ Upload Code as File</u> Test against custom input

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