Submissions

Leaderboard

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You are given \boldsymbol{q} queries. Each query is of the form two integers described below:

- $-1\,x$: Insert x in your data structure.
- $-2\,y$: Delete one occurence of y from your data structure, if present.
- 3z. Check if any integer is present whose frequency is exactly z. If yes, print 1 else 0.

The queries are given in the form of a 2-D array queries of size q where queries[i][0] contains the operation, and queries[i][1] contains the data element.

Example

$$queries = [(1,1),(2,2),(3,2),(1,1),(1,1),(2,1),(3,2)]$$

The results of each operation are:

Operation	Array	Output
(1,1)	[1]	
(2,2)	[1]	
(3,2)		0
(1,1)	[1,1]	
(1,1)	[1,1,1]	
(2,1)	[1,1]	
(3,2)		1

Return an array with the output: [0, 1].

Function Description

Complete the freqQuery function in the editor below.

freqQuery has the following parameter(s):

• int queries[q][2]: a 2-d array of integers

Returns

- int[]: the results of queries of type $oldsymbol{3}$

Input Format

The first line contains of an integer q, the number of queries.

Each of the next q lines contains two space-separated integers, queries[i][0] and queries[i][1].

Constraints

- $1 \le q \le 10^5$
- $1 \le x, y, z \le 10^9$
- All $queries[i][0] \in \{1,2,3\}$
- $1 \le queries[i][1] \le 10^9$

Sample Input 0

- 8
- 1 5
- 1 6
- 3 2
- 1 10

1 10
1 6
2 5
3 2
Sample Output 0
0
1
Explanation 0
For the first query of type $oldsymbol{3}$, there is no integer whose frequency is $oldsymbol{2}$ ($oldsymbol{array} = [5,6]$). So answer is $oldsymbol{0}$.
For the second query of type $\bf 3$, there are two integers in $array = [6, 10, 10, 6]$ whose frequency is $\bf 2$ (integers = $\bf 6$ and $\bf 10$). So, the answer is $\bf 1$.
Sample Input 1
4
3 4
2 1003
1 16
3 1
Sample Quenue 1
Sample Output 1
0
1
Evolunation 1
Explanation 1
For the first query of type 3 , there is no integer of frequency 4 . The answer is 0 . For the second query of type 3 , there is one integer, 16 of frequency 1 so the
answer is 1 .
answer is 1.
Sample Input 2
10
1 3
2 3
3 2
1 4
15
1 5 1 4
3 2
2 4
3 2
Sample Output 2
0
1
1
Explanation 2
Explanation 2
When the first output query is run, the array is empty. We insert two 4 's and two 5 's before the second output query, $arr = [4, 5, 5, 4]$ so there are two
[-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
instances of elements occurring twice. We delete a $\bf 4$ and run the same query. Now only the instances of $\bf 5$ satisfy the query.

```
Change Theme Language C#
                                                                                                 100
    using System.CodeDom.Compiler;
1
    using System.Collections.Generic;
2
3
    using System.Collections;
    using System.ComponentModel;
4
    using System.Diagnostics.CodeAnalysis;
5
   using System.Globalization;
6
7
    using System.IO;
8
    using System.Linq;
9
    using System.Reflection;
    using System.Runtime.Serialization;
10
    using System.Text.RegularExpressions;
11
    using System.Text;
12
13
    using System;
14
15
    class Solution {
16
17
         // Complete the freqQuery function below.
18
         static List<int> freqQuery(List<List<int>> queries) {
19
    //create a result array
                 Dictionary<int, int> num_freq_Dictionary = new Dictionary<int, int>();
20
21
         Dictionary<int, int> freq_num_Dictionary = new Dictionary<int, int>();
22
23
         List<int> output = new List<int>();
24
25
         queries.ForEach(x =>
26
27
             if (x[0] == 1)
                                                                                                     Line: 102 Col: 1
```

Test against custom input

Run Code

Submit Code