









Problem Leaderboard Submissions RATE THIS CHALLENGE 公公公公公 Maps are a part of the C++ STL.Maps are associative containers that store elements formed by a combination of a key value and a mapped value, following a specific order. The mainly used member functions of maps are: Map Template: std::map <key_type, data_type> Declaration: map<string,int>m; //Creates a map m where key_type is of type string and data_type is of type int. • Size: int length=m.size(); //Gives the size of the map. Insert: m.insert(make_pair("hello",9)); //Here the pair is inserted into the map where the key is "hello" and • Erasing an element: m.erase(val); //Erases the pair from the map where the key_type is val. • Finding an element: map<string,int>::iterator itr=m.find(val); //Gives the iterator to the element val if it is found othe Ex: map<string,int>::iterator itr=m.find("Maps"); //If Maps is not present as the key value then itr== • Accessing the value stored in the key: To get the value stored of the key "MAPS" we can do m["MAPS"] or we can get the iterator using the find To know more about maps click Here. You are appointed as the assistant to a teacher in a school and she is correcting the answer sheets of the students. Each student can have multiple answer sheets.So the teacher has $oldsymbol{Q}$ queries: **1 X Y**: Add the marks **Y** to the student whose name is **X**. 2 X: Erase the marks of the students whose name is X. ${f 3}$ ${f X}$: Print the marks of the students whose name is ${f X}$. (If ${f X}$ didn't get any marks print ${f 0}$.)

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. The first integer, type of each query is the type of the query. If query is of type 1, it consists of one string and an integer X and Y where X is the name of the student and Y is the marks of the student. If query is of type 2 or 3, it consists of a single string X where X is the name of the student.

Constraints

```
1 \leq Q \leq 10^5
```

$$1 \le type \le 3$$

$$1 \le |X| \le 6$$

 $1 \le Y \le 10^3$

Output Format

For queries of type **3** print the marks of the given student.

Sample Input

```
7
1 Jesse 20
1 Jess 12
1 Jess 18
3 Jess
3 Jesse
2 Jess
3 Jess
```

Sample Output

30 20 0

```
K N SS
                                                                     C++
     #include <iostream>
1
 2
     #include<map>
 3
     #include<string>
 4
     #include<cstring>
 5
6
     using namespace std;
7
8
     int main()
9
10
         int n,k,op;
11
         map <string,int> v;
12
         cin >> n;
13
         string str;
14
15
         for(int i=0;i<n;i++)</pre>
16
17
              cin >> op;
```

```
<del>1</del>8
                if(op == 1)
 20
 21
                    cin >> str >> k;
 22
 23
                    auto itr = v.find(str);
 24
 25
                    if(itr != v.end())
 26
 27
                         itr->second = itr->second + k;
 28
                     }
 29
                    else
 30
                     {
 31
                         v.insert(make_pair(str,k));
                                                                                              Line: 1 Col: 1
1 Upload Code as File
                    ☐ Test against custom input
                                                                              Run Code
                                                                                             Submit Code
```

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