

Donations

X22314_en

To solve this problem you have to complete the code that you will find at the end of the statement. You have to replace each ??? with one or more lines of code. Do not change anything else. Download from the website of the problem the file code.cc with the code to be completed (click on the corresponding button ".CPP"), edit it and submit it to the judge.

We want to keep basic information about the money donations to a hospital. In particular, we want to store the total money donated by each person, which is uniquely identified with his or her nif (8 digits followed by an uppercase control letter).

The program allows us to do five different operations:

- N: It prints the number of donors preceded by “number:”. Note that there may be fewer donors than donations, if there are repeated donors.
- D *n m*: It stores that the donor with nif *n* has given *m* money. If the person already made a donation, the amount is accumulated.
- Q *n*: This query prints the money given for the moment by the person with nif *n*. It prints -1 if the person has not made any donation yet.
- P: It prints a line with all nifs ending in an even digit (ignoring the control character), with nifs sorted alphabetically. It separates nifs with spaces.
- L: It prints the information of the donor with the alphabetically largest nif. If there is none, it prints “NO LAST NIF”.

Input

Input consists of several operations as indicated above. Nifs are correct, and donations are strictly positive integer numbers.

Output

For each operation (except donations), print the requested information. It is guaranteed that the maximum accumulated donation will not be greater than 10^9 .

Sample input 1

```
N
L
P
D 02345678T 1000
D 98765433Y 500
Q 02345678T
Q 12345679S
P
L
D 98765432M 500
D 98765433Y 2000
N
P
```

```
L
D 99999999R 700
L
```

Sample output 1

```
number: 0
NO LAST NIF
1000
-1
```

```
02345678T
98765433Y 500
number: 3
02345678T 98765432M
98765433Y 2500
99999999R 700
```

```
#include <iostream>
#include <map>
using namespace std;

int main() {
    map<string, int> M;
    char c;
    while (cin >> c) {
        if (c == 'N') {
            ???
        }
        else if (c == 'D') {
            string nif;
            int money;
            cin >> nif >> money;
            ???
        }
        else if (c == 'Q') {
            string nif;
            cin >> nif;
            ???
        }
        else if (c == 'P') {
            ???
        }
        else { // c == 'L'
            ???
        }
    }
}
```

Problem information

Author: Salvador Roura

Translator: Salvador Roura

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