
Most Valuable Player

X28976_en

We have the information of a set of teams along with their most valuable player (mvp) organized as follows:

```
struct Player {
    string name;
    double score;    // mean score
};

struct Team {
    string tname;
    Player mvp;      // most valuable player
};

typedef vector<Team> League;
```

Given the information of a set of teams and a sequence of pairs lowercase letter *c* and real number *s*, write the name of those players whose team's name starts by *c* and whose mean score is greater than *s*.

Use the following structure, adding code **ONLY** where indicated (otherwise, the problem will be INVALID):

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

// add here struct and type definitions
// (...)

League read_data() {
    // your code here
}

int main() {
    // your code here
}
```

Exam score: 3.500000 **Automatic part:** 40.000000%

Input

The input consists of two sequences:

- The first sequence represents the information of the teams. It starts with a natural number *n* followed by the information of *n* different teams. The information of each team starts with its name (lowercase letters and with no spaces), the name of its mvp (lowercase letters and with no spaces) and the mean score. **Implement and use function `read_data` to read this sequence.**

- The second sequence represents the queries and it is given as pairs lowercase letter c and double s.

Output

For each pair (c, s) in the queries sequence, write the name of those players whose team's name starts by c and their mean score is greater than s as shown in the examples. For each query, the players are written in the same order as they appear in the input sequence.

Sample input 1

```
5
viladecans martina 30.5
barceloneta laura 34
valvi andrea 15.8
premia_dalt maria 20.4
premia_mar joana 21.7

v 5
v 30.5
b 30
p 21
p 20
m 0
```

Sample output 1

```
-- begin query
martina
andrea
-- end query
-- begin query
-- end query
-- begin query
laura
-- end query
-- begin query
joana
-- end query
-- begin query
maria
joana
-- end query
-- begin query
-- end query
```

Sample input 2

```
0

v 5
b 30
```

Sample output 2

```
-- begin query
-- end query
-- begin query
-- end query
```

Sample input 3

```
2
viladecans martina 30.5
barceloneta laura 34
```

Sample output 3

Problem information

Author : Pro1

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