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## Best-seller

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We have the information of a set of authors along with their best-seller organized as follows:

```
struct Book {
    string title;
    int nb_pag;           // number of pages
};

struct Author {
    string name;
    Book bestseller;
};

typedef vector<Author> Library;
```

Given the information of a set of authors and a sequence of pairs lowercase letter *c* and natural number *p*, write the name of the authors whose best-seller (its title) starts by *c* and it has more than *p* pages.

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
// (...)

Library 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 authors. It starts with a natural number *n* followed by the information of *n* different authors. The information of each author starts with the author's name (lowercase letters and with no spaces), best-seller title (lowercase letters and with no spaces) and its number of pages. **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 natural number p.

## Output

For each pair (c, p) in the queries sequence, write the name of those authors whose best-seller title starts by c and it has more than p pages as shown in the examples. For each query, the authors are written in the same order as they appear in the input sequence.

### Sample input 1

```
5
martin best_of_all 30
anne green_life 340
anonymous book_of_books 430
mario my_marvelous_book 150
elvira manolito 90

b 5
b 430
g 300
m 100
m 80
p 0
```

### Sample output 1

```
-- begin query
martin
anonymous
-- end query
-- begin query
-- end query
-- begin query
anne
-- end query
-- begin query
mario
-- end query
-- begin query
mario
elvira
-- end query
-- begin query
-- end query
```

### Sample input 2

```
0

b 5
m 80
```

### Sample output 2

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

### Sample input 3

```
2
martin best_of_all 30
anne green_life 340
```

### Sample output 3

## Problem information

Author : Pro1

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