Classes   X51935_en

The UPF schedule can be difficult to read, so Alice wants to write a program that tells her which classroom she has to go to at a given hour.

Input

The input consists of several test cases. Each test case starts with a number N describing the classes during a given week. The next N lines contain information about the classes: the name of the course, the day of the week, the time and the classroom. The following line contains a day of the week and a time.

Output

For each test case, output the classroom corresponding to the class of the given day and time.

Sample input 1

```
5
Algebra Monday 12:30 52.117
Programming Tuesday 10:30 52.023
Physics Wednesday 08:30 52.217
Calculus Thursday 10:30 52.019
Logic Thursday 12:30 52.123
Wednesday 08:30
```

Sample output 1

```
52.217
```

Problem information

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