

# SENIOR VS JUNIOR

Time Limit: 1s

The new programmers of **EWUCoPC** don't know one another. As you are one of the members of this club, so it is a big problem when you'll meet with a programmer. You should respect your senior. Again your junior should respect you. Only your batch mate can ignore you or you can ignore your batch mate. Now you are hired to write a program that will find out your junior, senior and batch mate.

## Input:

First line of this program will be a single integer  **$T \leq 100000$**  denoting the number of test cases. Each test case will contain two lines. Each line will consist of a string  **$S_i$**  and an integer  **$Y_i$**  where  **$S_i$**  stands for the name of semester  **$Y_i$**  stands for the year. **First line will be your admitted semester and year and second line will be another programmer's admitted semester and year.** Admitted semester and year means when you were admitted in the university.

Each of the  **$S_i$**  will not contain except "**SPRING**", "**SUMMER**" or "**FALL**". Here "**SPRING**" is the 1<sup>st</sup> semester, "**SUMMER**" is the 2<sup>nd</sup> semester and "**FALL**" is the 3<sup>rd</sup> semester of all years.  **$Y_i$**  will  **$2000 \leq Y_i \leq 2015$** . It is guaranteed that all the letters of semester name will always uppercase/capital.

## Output:

For each test case you have to print "**Case Q: P**" where **Q** denotes the case number and **P** is a string which will contain a message. **P** will be (without quotes):

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Problem Setter: Swapnil Saha.

Special Thanks: Abdullah Al Mosharraf, Abdullah Al Masud Tushar, Al-Amin, S. M. Ruhul Kabir Howlader.

- **“Junior by D Semester.”** – if you are junior from another programmer where **D** denotes you are junior by how many semester.
- **“Senior by D Semester.”** – if you are senior from another programmer where **D** denotes you are senior by how many semester.
- **“You are my batch mate.”** – if you and another programmer were admitted in a same semester.

Follow the sample input output given below.

### **Sample Input:**

```
4
SUMMER 2014
SUMMER 2014
SUMMER 2014
SPRING 2014
SUMMER 2014
FALL 2014
SUMMER 2014
FALL 2006
```

### **Sample Output:**

```
Case 1: You are my batch mate.
Case 2: Junior by 1 Semester.
Case 3: Senior by 1 Semester.
Case 4: Junior by 23 Semester.
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