Challenge 1 - Anonymous Poll

Your university wants you to fill out an "anonymous" survey. There are many questions but some fields are mandatory:

- Gender
- Age
- Education
- Academic Year

Are you sure this is really anonymous? If you have a list of all students and you ask them to take a random survey, you may be able to identify the students who complete the survey.

The list of students is a text file. Each line has the information of a student in comma-separated values:

```
name1,gender1,age1,studies1,academic_year1
name2,gender2,age2,studies2,academic_year2
...
```

The gender can be "M" (male) or "F" (female).

Input

Input starts with a number "T" (T <= 100) followed by "T" cases. Each case is a list of comma-separated values, which are:

```
gender,age,studies,academic_year
```

Output

For each case, you must print the list of students that match the input. If there

are multiple results, print them in lexicographical order and separated by commas. If there are not matches, print "NONE".

Use the following format:

```
Case #Ti: Ri
```

Where "Ti" is the case number and "Ri" is the result.

Sample input

```
5
M,21,Human Resources Management,3
F,20,Systems Engineering,2
M,20,Manufacturing Engineering,3
M,18,Electrical Engineering,4
F,25,Construction Engineering,4
```

Sample output

```
Case #1: NONE
Case #2: Morgan Martinez Moore
Case #3: Alfie Hernandez Diaz
Case #4: Mohammad Green Morales,Oliver Carter Rivera
Case #5: Ellie Brown Reed,Laura Stewart Foster,Nicole
Peterson Torres
```

Submit & test your code

To test and submit code we provide a set of tools to help you. Download con-test tools if you haven't already done that. You will then be able to test your solution to this challenge with the challenge tokens.

```
Challenge tokens: CHALLENGE_1, CHALLENGE_SUBMIT_1
```

To test your program

```
./test_challenge CHALLENGE_1 path/program
```

A nice output will tell you if your program got the right solution or not. You can try as many times as you need.

To test your program against the input provided in the submit phase

```
./test_challenge CHALLENGE_SUBMIT_1 path/program
```

During the submit phase, in some problems, we might give your program harder inputs. As with the test token, a nice output will tell you if your program got the right solution or not. You can try as many times as you need.

In the actual contest you first need to solve the test phase before submitting the code, you must provide the source code used to solve the challenge and you can only submit once (once your solution is submitted you won't be able to amend it to fix issues or make it faster).

If you have any doubts, please check the info section.