Problem SCHILDA: Schilda Roads

Maybe you know the famous stories of the citizens of Schilda (called the „Schildbürger"). Besides their strange city hall and other things they also managed to build mostly one-way streets in their city. As the city grew larger and larger the distances to visit friends got larger and larger, so they wanted to take the car as often as possible. Unfortunately, because of the many one-way streets it is not always possible for two friends to reach each other by car. In these cases they have to go by foot. Your task is to aid the inhabitants of Schilda in deciding if two friends can both visit each other by car or not.

Input

The input consists of several maps of Schilda (of course they have more than one). So the first line holds the number of testcases. Each testcase starts with two numbers in one line separated by a single space: the number of road junctions in the city and the number of roads, respectively. Then the roads follow. Each road is given as a pair of junction „numbers" separated by => in one line, which means that the road is one-way from the first junction to the second. However, the Schildbürger have not invented numbers yet, they only know the 26 letters from **A** to **Z**. Thus our number **0** is **A** in Schilda language and **26** is **BA** and so on.
After the roads a number of tests follow. Each test also consists of a pair of junctions separated by <=>, which means that the two friends live at these two junction (or very close-by) and want to visit each other. The test end with an empty line. Then the next testcase starts (if there is any). There are never more than 8000 junctions in a map. All other numbers may be arbitrarily large.

Output

Your program should output `Car is OK` for each test if the two friends can visit each other by car, or `Footwalking` if at least one of them cannot go by car to the other.

Sample Input 1

```
2
4 4
A=>B
B=>A
C=>D
D=>C
A<=>B
A<=>C

4 4
A=>B
B=>C
C=>D
D=>B
A<=>B
C<=>B
```

Sample Output 1

```
Car is OK
Footwalking
Footwalking
Car is OK
```