



Problem J

Jujutsu Kaisen

Time limit: 2.5 seconds

Memory limit: 2048 megabytes

Problem Description

Jujutsu Kaisen (呪術廻戦) is a popular Japanese anime. It's a story based on a world where all the living beings emanate an energy called "Cursed Energy", which arises from negative emotions that naturally flow throughout the body. Most people can't control Cursed Energy, so they also release it, resulting in the birth of "Curses". On the other hand, a few people can control this kind of power, who are called "Jujutsu Sorcerers". Jujutsu Sorcerers and Curses can control Cursed Energy and perform what is called Cursed Techniques.

In Jujutsu Kaisen, there is an organization named Curse Technical School which has two branches, Tokyo and Kyoto. Both branches have plenty of outstanding Jujutsu Sorcerers, with Gojo Satoru being the best among them. Each year, these two branches hold a competition called "Tokyo-Kyoto Jujutsu High School: Sister School Exchange Event" to compete with each other.

In 2022, the competition is held in team mode. There are n people in total, numbered $1, 2, \dots, n$, and Gojo Satoru has to separate them into two teams with an equal number of people. If this is not possible, then the competition is unfair and cannot be continued. After forming the two teams, people will join 1-on-1 battles. Each person must participate in exactly one battle against a person from the other team.

To make the competition more interesting, there needs to be more negative emotions. There are m bad relationships among the n people, and Gojo Satoru hopes that every 1-on-1 battle is between two people with a bad relationship. If that happens, the competition is called a "cursed brawl".

Since Gojo Satoru is a lazy guy, he doesn't want to find a feasible way of separating people into teams such that a cursed brawl is possible. Instead, he wants to know whether for any way of separating people into two equal teams, a cursed brawl is possible.

Input Format

The first line contains two integers n and m , denoting the number of people and bad relationships. The i^{th} of the next m lines contains two integers u_i and v_i denoting a bad relationship between the people numbered u_i and v_i . Each pair of people appears at most once in the input.

Output Format

If the people cannot be separated into two teams with the same size, print one line with the string "Not fair" (without quotes). Otherwise, if a cursed brawl is possible for all ways of sep-



arating people into two teams, print “Gojo Satoru”. Otherwise, print “Ryomen Sukuna”.

Technical Specification

- $1 \leq n \leq 100$
- $0 \leq m \leq \binom{n}{2}$
- $1 \leq u_i, v_i \leq n$ for $i = 1, 2, \dots, m$
- $u_i \neq v_i$ for $i = 1, 2, \dots, m$

Sample Input 1

```
4 4
4 2
1 3
3 2
1 4
```

Sample Output 1

```
Gojo Satoru
```

Sample Input 2

```
4 2
1 3
4 2
```

Sample Output 2

```
Ryomen Sukuna
```

Sample Input 3

```
6 9
6 1
2 3
5 6
2 5
6 2
1 4
4 5
1 3
4 3
```

Sample Output 3

```
Gojo Satoru
```