

H	Social Network	Time limit: 1 sec
---	----------------	-------------------

Fahim is going to make a social network which is now under construction. There are two ways to make friends in social network.

Type 1: Any person goes to his / her friend list then choose a friend and search his / her friend list (this website is under construction so friend list is public). From there he can choose a person and give him/her a friend request or go to his / her friend list and repeat this.

Type 2: Search a random user by typing his / her name and give him / her friend request.

Now Fahim wants a track of friendships formed by **Type 1** and **Type 2**. When two people become friends, check whether it is possible by **Type 1** method. If yes, then report "Found in friend list" otherwise report "Found by random".

As he is lazy, he is asking your help to do this job.

Input:

The first line contains Query Q ($Q \leq 100000$).

Next Q line contains two names who become friends A, B. A sends B a friend request.

Length of each name ≤ 10

Sum of length of all names ≤ 1000000

Output:

Output for each query in a separate line, print "Found in friend list" if it is possible in **Type 1** method otherwise print "Found by random".

Input	Output
3	Found by random
A B	Found by random
A C	Found in friend list
B C	