Bear and Candies 123 Problem Code: **CANDY123**

Bears love candies and games involving eating them. Limak and Bob play the following game. Limak eats 1 candy, then Bob eats 2 candies, then Limak eats 3 candies, then Bob eats 4 candies, and so on. Once someone can't eat what he is supposed to eat, he loses.

Limak can eat at most **A** candies in total (otherwise he would become sick), while Bob can eat at most **B** candies in total. Who will win the game? Print "Limak" or "Bob" accordingly.

Input

The first line of the input contains an integer **T** denoting the number of test cases. The description of **T** test cases follows.

The only line of each test case contains two integers **A** and **B** denoting the maximum possible number of candies Limak can eat and the maximum possible number of candies Bob can eat respectively.

Output

For each test case, output a single line containing one string — the name of the winner ("Limak" or "Bob" without the quotes).

Constraints

- $1 \le T \le 1000$
- $1 \le A, B \le 1000$

Example

Input:

10

3 2

4 2

1 1

1 2

1 3

9 3

9 11

9 12

```
9 1000

8 11
```

```
Bob

Limak

Limak

Bob

Bob

Limak

Limak

Bob

Bob

Bob
```

Explanation

Test case 1. We have **A** = 3 and **B** = 2. Limak eats 1 candy first, and then Bob eats 2 candies. Then Limak is supposed to eat 3 candies but that would mean 1 + 3 = 4 candies in total. It's impossible because he can eat at most **A** candies, so he loses. Bob wins, and so we print "Bob".

Test case 2. Now we have **A** = 4 and **B** = 2. Limak eats 1 candy first, and then Bob eats 2 candies, then Limak eats 3 candies (he has 1 + 3 = 4 candies in total, which is allowed because it doesn't exceed **A**). Now Bob should eat 4 candies but he can't eat even a single one (he already ate 2 candies). Bob loses and Limak is the winner.

Test case 8. We have **A** = 9 and **B** = 12. The game looks as follows:

- Limak eats 1 candy.
- Bob eats 2 candies.
- Limak eats 3 candies (4 in total).
- Bob eats 4 candies (6 in total).
- Limak eats 5 candies (9 in total).
- Bob eats 6 candies (12 in total).
- Limak is supposed to eat 7 candies but he can't — that would exceed **A**. Bob wins.