 <b>Marwadi</b> University	<b>Marwadi University</b> <b>Faculty of Technology</b> <b>Department of Information and Communication Technology</b>	
<b>Sem : 4</b>	<b>Name : VEDANT BHARAD</b>	
<b>Day : 96</b>	<b>Date : 21/01/2023</b>	<b>Enrollment No: 92100133023</b>


## CP Club 365 Days Challenge

Programming language – C++

### Problem Statement


<https://www.codechef.com/problems/CANDY123>

Git :- [https://github.com/Vedantbharad2603/CP\\_club\\_365\\_Days](https://github.com/Vedantbharad2603/CP_club_365_Days)

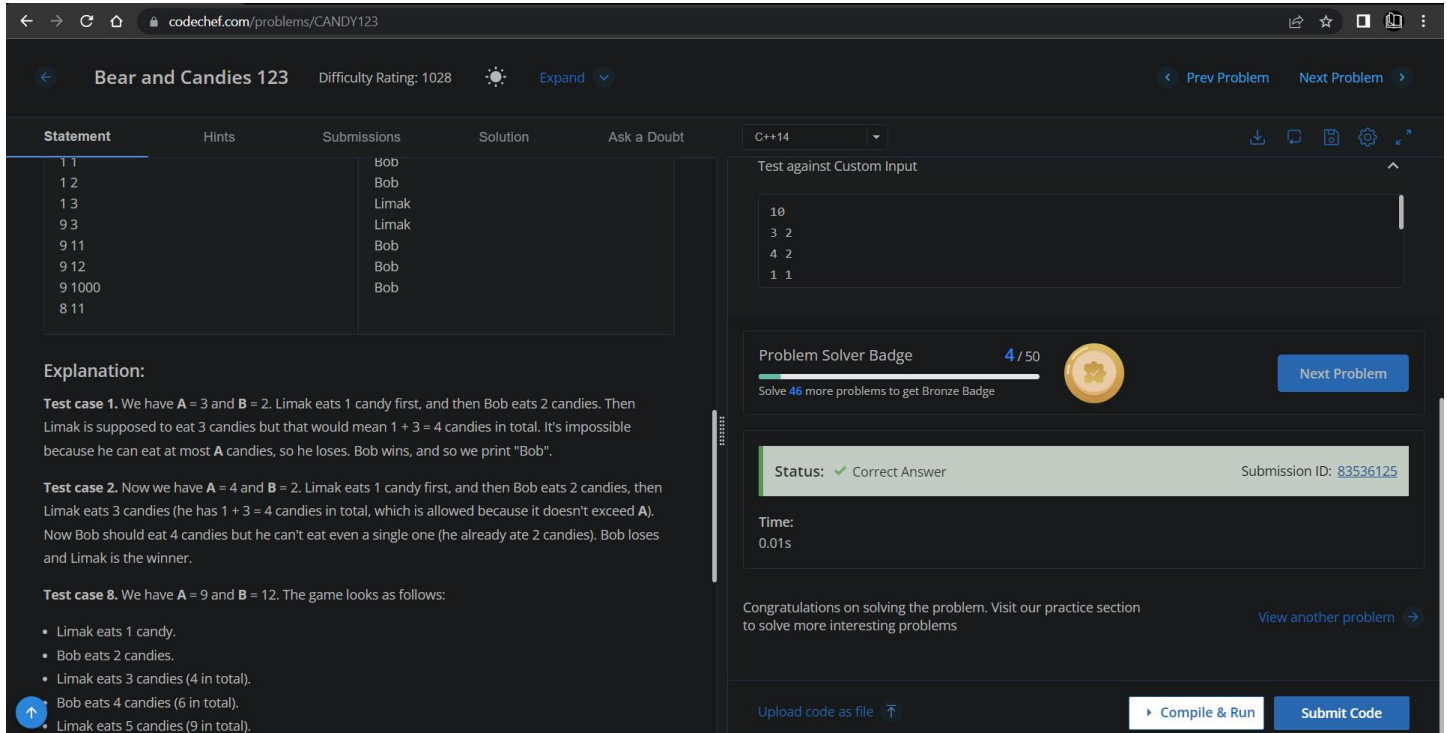
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<b>Sem : 4</b>	<b>Name : VEDANT BHARAD</b>	
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## Your Code:

```
// 0x96Day of 0x365Days challenge
// VEDANT BHARAD
// 21-1-2023
#include <bits/stdc++.h>
using namespace std;
string Candies(int a,int b) {
    int c=1,toeat=1;
    while (c!=0)
    {
        if(a<0 || b<0)
        {
            c=0;
        }
        else
        {
            if(toeat%2==0) //Bob
            {
                b-=toeat;
            }
            else //Limak
            {
                a-=toeat;
            }
        }
        toeat++;
    }
    if(a>b)
        return "Limak";
    else return "Bob";
}
int main() {
    int t;
    cin >> t;
    while (t--) {
        int a,b;
        cin>>a>>b;
        cout<<Candies(a,b)<<endl;
    }
    return 0;
}
```

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## Output (Screen Shot):



The screenshot shows the CodeChef interface for the problem "Bear and Candies 123". The problem statement is on the left, and the right side shows the submission details. The submission is successful, with a status of "Correct Answer" and a time of 0.01s.

**Problem Statement:** Bear and Candies 123. Difficulty Rating: 1028. Expand.

**Statement:** 1 1, 1 2, 1 3, 9 3, 9 11, 9 12, 9 1000, 8 11.

**Submissions:** 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).

**Problem Solver Badge:** 4 / 50. Solve 46 more problems to get Bronze Badge. Next Problem.

**Status:** Correct Answer. Submission ID: 83536125.

**Time:** 0.01s.

**Upload code as file:** Compile & Run, Submit Code.

## Understanding about problem:

- In this task I need to return the winner name of the game which is given in statement if any person need to eat more candies then his limits then that person will lose the game.

**Note:** If you can't understand the problem, feel free to contact us and we'll help you. Please don't copy and paste from anywhere.

**ALL THE BEST**  
Team CP Club