**Appy and Chef**

Appy and Chef are participating in a contest. There are NN problems in this contest; each problem has a unique problem code between 11 and NN inclusive. Appy and Chef decided to split the problems to solve between them ― Appy should solve the problems whose problem codes are divisible by AA but not divisible by BB, and Chef should solve the problems whose problem codes are divisible by BB but not divisible by AA (they decided to not solve the problems whose codes are divisible by both AA and BB).

To win, it is necessary to solve at least KK problems. You have to tell Appy whether they are going to win or lose.

**Input**

* The first line of the input contains a single integer TT denoting the number of test cases. The description of TT test cases follows.
* The first and only line of each test case contains four space-separated integers NN, AA, BB and KK.

**Output**

For each test case, print a single line containing the string "Win" if they can solve at least KK problems or "Lose" otherwise (without quotes).

**Constraints**

* 1≤T≤151≤T≤15
* 1≤K≤N≤10181≤K≤N≤1018
* 1≤A,B≤1091≤A,B≤109

**Subtasks**

**Subtask #1 (15 points):**

* 1≤T≤151≤T≤15
* 1≤K≤N≤1061≤K≤N≤106
* 1≤A,B≤1031≤A,B≤103

**Subtask #2 (85 points):** original constraints

**Example Input**

1

6 2 3 3

**Example Output**

Win

**Explanation**

**Example case 1:** Appy is solving the problems with codes 22 and 44, Chef is solving the problem with code 33. Nobody is solving problem 66, since 66 is divisible by both 22 and 33. Therefore, they can solve 33 problems and win.

Code:

n=int(input(**'enter the input'**))  
c=0  
a1=list()  
while n!=0:  
 n1,a,b,k=raw\_input().split(**" "**)  
  
 n1=int(n1)  
 a=int(a)  
 b=int(b)  
 k=int(k)  
  
for i in range(1,n1):  
  
 if(i%a==0):  
  
 c+=1  
  
 elif(i%b==0):  
  
 c+=1  
  
 if(i%a==0 and i%b==0):  
  
 c-=1  
  
 if(c==k):  
  
 a1.append(**'Win'**)  
  
 else:  
  
 a1.append(**'Lose'**)  
  
 n-=1  
  
 c=0  
  
for i in range(len(a1)):  
  
 print a1[i]