

<https://course.acciojob.com/idle?question=a65df82b-2f1d-4c01-833f-12a58d04788a>

● EASY

● Max Score: 30 Points

●

Winner Of Candies

You and your friend met after a long time and decided to have candies. You brought 'X' candies while your friend brought 'Y' candies. Since you both were bored you decided to play a game where each of you will play one by one and you will start first.

The game goes as follows :

In the i th move, the person will give i candies to the other person.

The person who is unable to donate the required amount of candies will lose. You are required to find out who will win the game.

Input Format

The first line two space-separated integers X and Y which denote the number of candies you and your friend have initially.

Output Format

Print "Win" if you will win the game and "Lose" if you don't win the game.

Example 1

Input

1 2

Output

Lose

Explanation

For $X = 1$, $Y = 2$ the game goes as follows -

You will donate 1 candy. So you now have 0 and your friend has 3 candies.

Your friend will donate 2 candies. So you now have 2 and your friend has 1 candy.

You are required to donate 3 candies but you only have 2 candies.

Hence your friend wins.

Example 2

Input

3 2

Output

Win

Explanation

The game proceeds as follows:- Step 0 $X = 3$, $Y = 2$;

Step 1 $X = 2$, $Y = 3$;

Step 2 $X = 4$, $Y = 1$;

Step 3 $X = 1$, $Y = 4$;

Step 4 $X = 5$, $Y = 0$;

Step 5 $X = 0$, $Y = 5$;

Now, your friend will not be able to donate 6 candies in the next move. So, you will win.

Constraints

$1 \leq X, Y \leq 10^9$

Topic Tags

- Math

My code

// in java

```
import java.util.*;
import java.lang.*;
import java.io.*;
```

```
public class Main
{
```

```
    public static void main (String[] args) throws java.lang.Exception
    {
```

```
        //your code here
```

```
        Scanner s=new Scanner(System.in);
        long n=s.nextLong();
        long m=s.nextLong();
        long c=1;
```

```
        while((m>-1)&&(n>-1))
        {
            if(c%2==1)
            { n=n-c;
              m=m+c;}
            else {n=n+c; m=m-c;}
            c++;
        }
```

```
    }  
    if(n>m)  
        System.out.print("Win");  
    else System.out.print("Lose");  
    }  
}
```