## Game of Squares

Changu and Mangu are playing a game. They are given a number n. They make moves in turn, Changu playing first. Each move consists of subtracting a perfect square(not less than 1) from the number, the player who faces 0 loses. You are given a number $n$, you have to find out whether Changu can win the game, if both Changu and Mangu play optimally.

## Input

The first line contains $T$ (not more than $10^{\wedge} 5$ ), the number of test cases. The next $T$ lines contain a number n (not more than $10^{\wedge} 6$ ).

## Output

For each test case output "Win" if Changu can win the game, if he plays optimally or else print "Lose"

## Example

Input:
3
1
2
3

## Output:

Win
Lose
Win

