Is Fibo



You are given an integer, N. Write a program to determine if N is an element of the *Fibonacci sequence*.

The first few elements of the Fibonacci sequence are $0, 1, 1, 2, 3, 5, 8, 13, \cdots$. A Fibonacci sequence is one where every element is a sum of the previous two elements in the sequence. The first two elements are 0 and 1.

Formally:

$$egin{aligned} fib_0 &= 0 \ fib_1 &= 1 \ &dots \ fib_n &= fib_{n-1} + fib_{n-2} orall n > 1 \end{aligned}$$

Input Format

The first line contains T, number of test cases.

 $m{T}$ lines follow. Each line contains an integer $m{N}$.

Output Format

Display $\color{red} \textbf{IsFibo}$ if N is a Fibonacci number and $\color{red} \textbf{IsNotFibo}$ if it is not. The output for each test case should be displayed in a new line.

Constraints

 $1 \le T \le 10^5 \\ 1 \le N \le 10^{10}$

Sample Input

```
3
5
7
8
```

Sample Output

IsFibo IsNotFibo IsFibo

Explanation

5 is a Fibonacci number given by ${
m fib}_5=3+2$

7 is not a Fibonacci number

8 is a Fibonacci number given by ${f fib}_6=5+3$

Time Limit

Time limit for this challenge is given here.