

## **Experiment 5.1.1**

Algorithm:

Step 1: Start

Step 2: Input an integer a (year)

Step 3: Check if  $a \% 4 == 0$

Step 4: If true, print "Leap year"

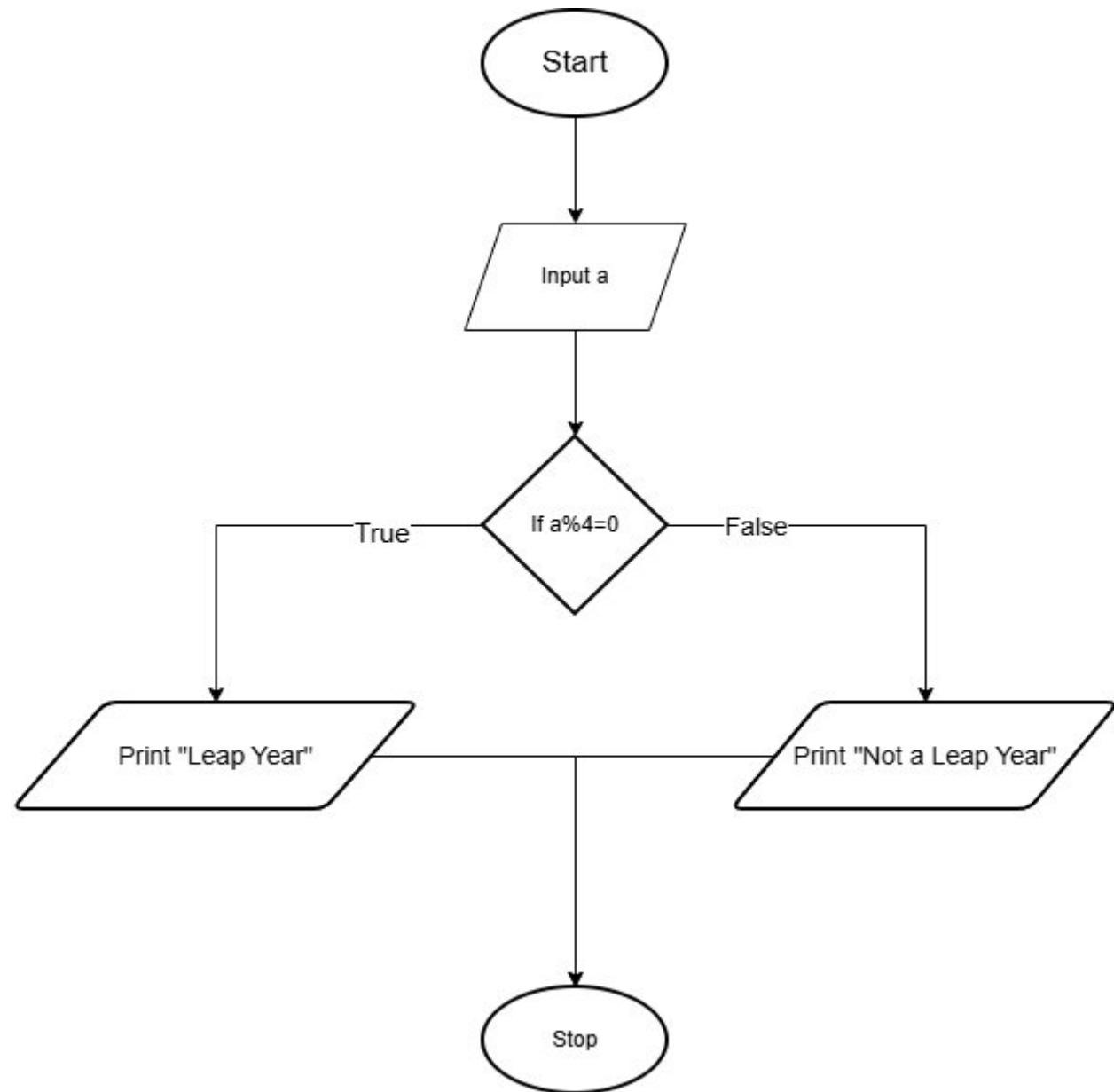
Step 5: Otherwise, print "Not a leap year"

Step 6: Stop

**Code:**

```
a = int(input())  
  
if a%4==0:  
  
    print("Leap year")  
  
else:  
  
    print("Not a leap year")
```

**FlowChart:**



**5.1.1. Leap Year Checker**

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Write a Python program that prompts the user to enter a year. The program should determine if the year is a leap year or not and print the appropriate message.

**Input Format:**

- A single line contains an integer representing the year.

**Output Format:**

- Print "Leap year" if it is a leap year. Otherwise, print "Not a leap year".

**Sample Test Cases****Test case 1**

2024

Leap year

**Test case 2**

2022

Not a leap year

 **leapYear.py**

```
1 a = int(input())
2 v if a%4==0:
3   →print("Leap year")
4 v else:
5   →→print("Not a leap year")
```

Average time

**0.003 s**

2.75 ms

Maximum time

**0.003 s**

3.00 ms

**2 out of 2 shown test case(s) passed****2 out of 2 hidden test case(s) passed****✓** Test case 1 **3 ms**

Expected output

2024

Actual output

2024

Leap year

Leap year

**✓** Test case 2 **3 ms**

Terminal

Test cases

&lt; Prev

Reset

Submit