Experiment 5.1.1

Roots of an experiment

Algorithm:

 Step 1: Start

 Step 2: Input an integer a (year)

 Step 3: Check if a % 4 == 0

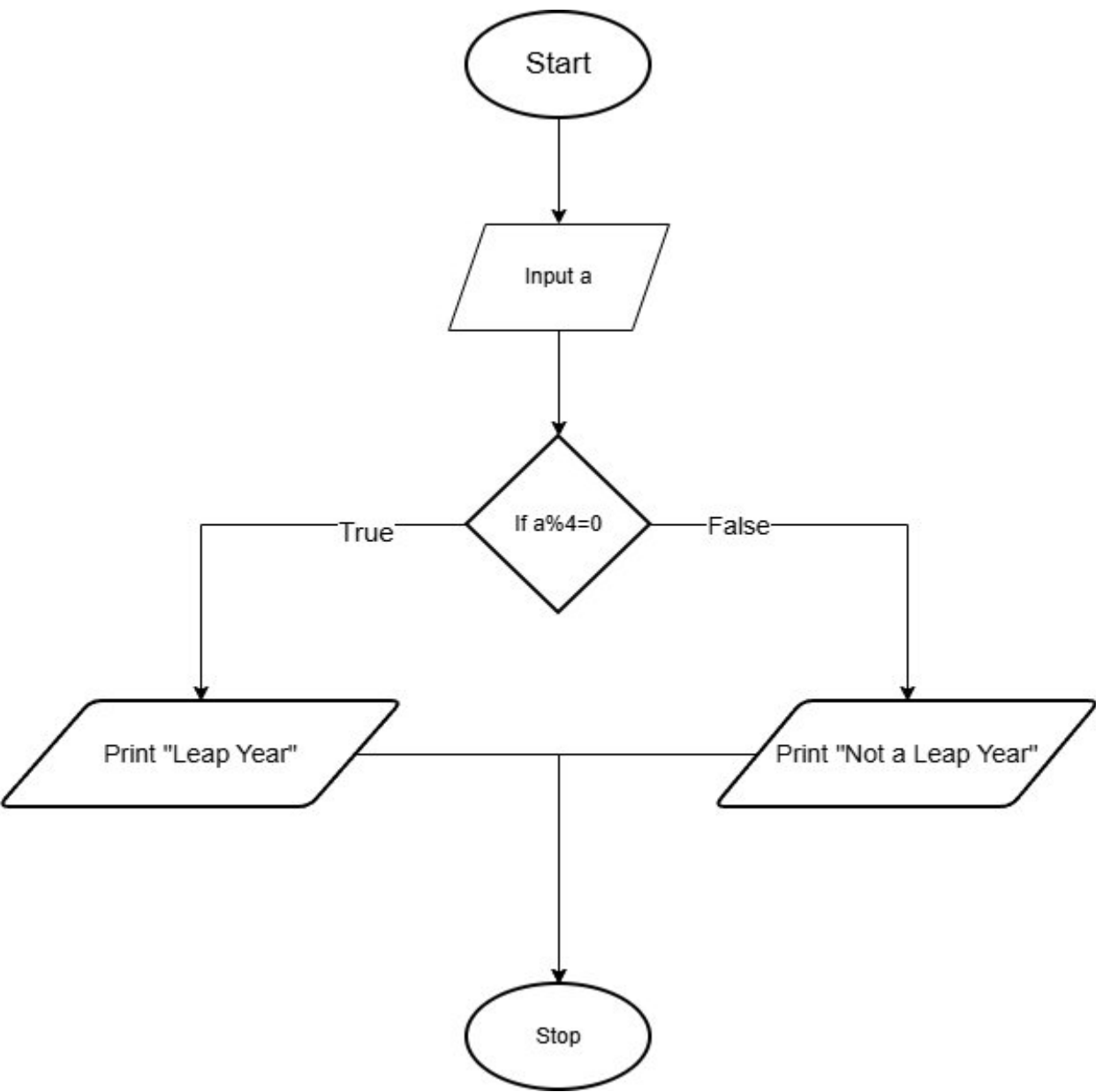 Step 4: If true, print "Leap year"

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:

```
              ┌─────────┐
              │  Start  │
              └────┬────┘
                   │
                   ▼
              ╱──────────╲
             ╱   Input a   ╲
             ╲             ╱
              ╲──────────╱
                   │
                   ▼
              ◇───────────◇
   True      ╱ If a%4=0  ╲     False
 ◄──────────◇             ◇──────────►
              ◇───────────◇
        │                        │
        ▼                        ▼
╱──────────────╲         ╱────────────────────╲
╱ Print "Leap Year" ╲    ╱ Print "Not a Leap Year" ╲
╲                  ╱     ╲                        ╱
  ╲──────────────╱         ╲────────────────────╱
        │                        │
        └───────────┬────────────┘
                    ▼
               ┌─────────┐
               │  Stop   │
               └─────────┘
```

Start

Input a

If a%4=0

True

False

Print "Leap Year"

Print "Not a Leap Year"

Stop

5.1.1. Leap Year Checker   01:55 AA ☾ ☑ ⌀ —

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**   ⊙ ⊙ Su

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

Average time	Maximum time	
0.003 s	**0.003 s**	✓ 2 out of 2 shown test case(s) passed
2.75 ms	3.00 ms	✓ 2 out of 2 hidden test case(s) passed

✓ **Test case 1** `3 ms`   🐞 Debug ≡ ▦ ∧

Expected output	Actual output
`2024`	`2024`
Leap·year	Leap·year

✓ **Test case 2** `3 ms`   ∨

▶_ Terminal   ▦ Test cases

‹ Prev   Reset   Submit