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EX: 4.4.1 SET OPERATIONS #ALGORITHM:

Step 1: Start

Step 2: Input Set A

Step 3: Convert the input values into Set A

Step 4: Input Set B

Step 5: Convert the input values into Set B

Step 6: Find the Union of Set A and Set B Union = A | B

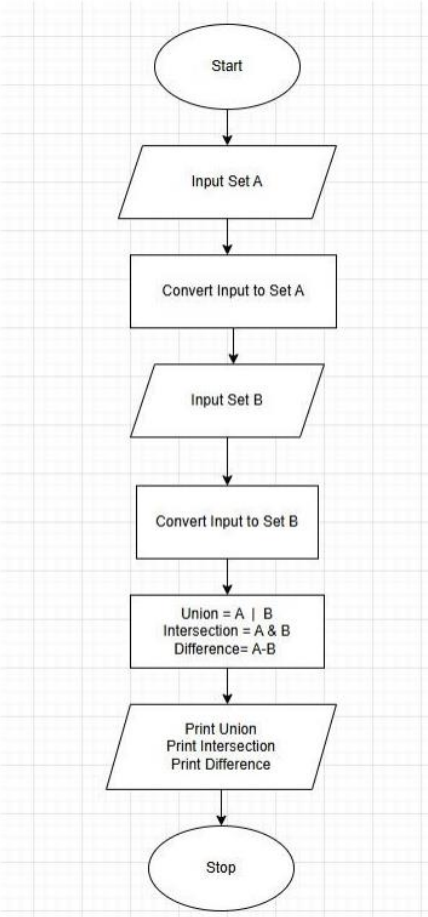
Step 7: Find the Intersection of Set A and Set B Intersection = A & B

Step 8: Find the Difference of Set A and Set B Difference = A − B

Step 9: Print the Union, Intersection, and Difference

Step 10: Stop

Flowchart:



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5.1.1. Leap Year Checker 07:34

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 +

Explorer

leapYear.py

Submit

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

```

Debugger

Average time 0.006 s 6.25 ms

Maximum time 0.007 s 7.00 ms

2 out of 2 shown test case(s) passed

2 out of 2 hidden test case(s) passed

Test case 1 7 ms

Debug

Expected output

2024

Leap year

Actual output

2024

Leap year

Test case 2 7 ms