

### PPS 3.1.1

#### **Algorithm: Find the Largest of Three Numbers**

##### **Step 1: Start**

**Begin the execution of the program.**

##### **Step 2: Input Phase**

**Read three integer values from the user and store them in variables:**

- **Read value for a.**
- **Read value for b.**
- **Read value for c.**

##### **Step 3: First Level Comparison**

**Check if a is greater than b ( $a > b$ ):**

- **If True: Move to Step 4 (Compare a and c).**
- **If False: Move to Step 5 (Compare b and c).**

##### **Step 4: Branch A (a is currently the leader)**

**Check if a is greater than c ( $a > c$ ):**

- **If True: a is the largest.**
- **If False: c is the largest.**
- **Proceed to Step 6.**

##### **Step 5: Branch B (b is currently the leader)**

**Check if b is greater than c ( $b > c$ ):**

- **If True: b is the largest.**
- **If False: c is the largest.**
- **Proceed to Step 6.**

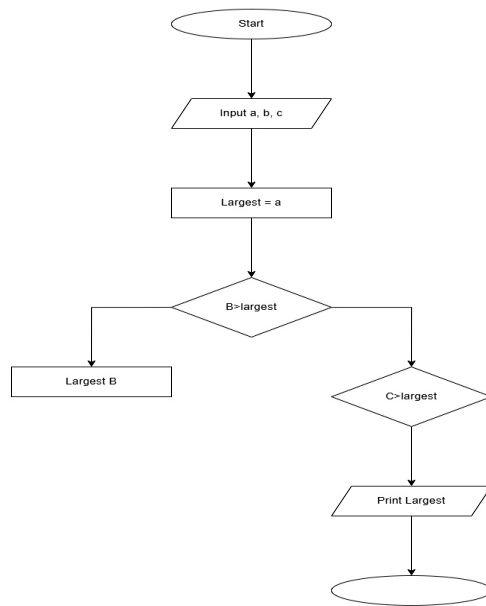
##### **Step 6: Output Phase**

**Print the value determined to be the largest in the previous steps.**

##### **Step 7: Stop**

**End the program.**

## Flowchart:



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### 3.1.1. Largest of Three Numbers

Write a Python program that prompts the user to enter three integers. Print the largest of the three integers.

**Input Format:**

- The program will prompt the user to enter three integers, one per line.

**Output Format:**

- The output will display the largest integer among the three integers.

Sample Test Cases

**largestNu...** Submit

```
1 a = int(input())
2 b = int(input())
3 c = int(input())
4
5 largest = a
6 if b > largest: largest = b
7 if c > largest: largest = c
8 print(largest)
```

Average time  
**0.015 s**  
14.50 ms

Maximum time  
**0.016 s**  
16.00 ms

2 out of 2 shown test case(s) passed  
2 out of 2 hidden test case(s) passed

Test case 1	16 ms	Debug
Expected output	Actual output	
5	5	
6	6	
7	7	
7	7	

Test case 2 16 ms

Terminal Test cases