

Experiment - 3.1.1. Largest of Three Numbers

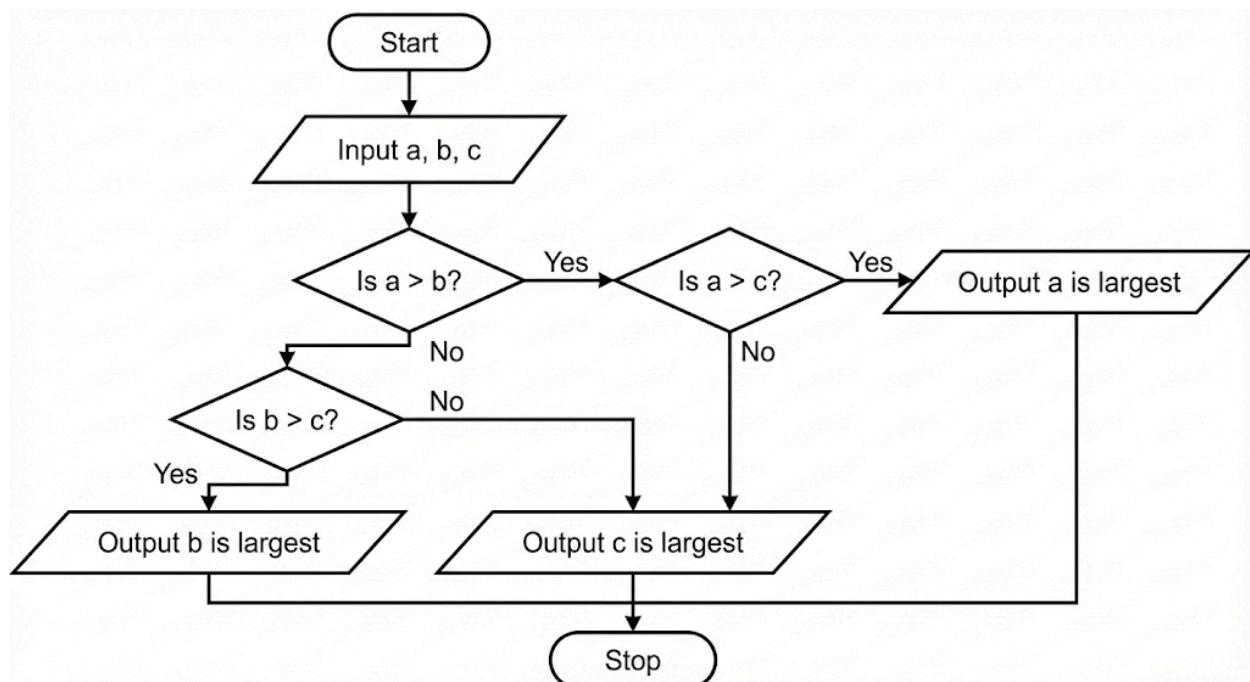
1. Aim

To design and implement a Python program that prompts the user to enter three integers and determines the largest among them using conditional statements (if-elif-else).

2. Pseudocode

1. **START**
2. **READ** three integers a, b, and c from the user (one per line).
3. **INITIALIZE** a variable largest to 0.
4. **IF** $a \geq b$ AND $a \geq c$:
 - o Set largest = a.
5. **ELSE IF** $b \geq a$ AND $b \geq c$:
 - o Set largest = b.
6. **ELSE:**
 - o Set largest = c.
7. **PRINT** the value of largest.
8. **END**

3. Flowchart



4. Python Program

```
# Program to find the largest of three integers
```

```

# Input: Three integers, one per line
# Output: The largest integer among the three

# Taking three integers as input
a = int(input(""))
b = int(input(""))
c = int(input(""))

# Initializing variable to store the largest value
largest = 0

# Comparative logic using logical 'and'
if (a >= b) and (a >= c):
    largest = a
elif (b >= a) and (b >= c):
    largest = b
else:
    largest = c

# Displaying the result
print(largest)

```

5. Experiment Screenshot

The screenshot shows the CodeTantra interface for a challenge titled "3.1.1. Largest of Three Numbers".

Problem Statement:

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.

Code Editor:

```

1 a = int(input(""))
2 b = int(input(""))
3 c = int(input(""))

4
5 largest = 0
6 if (a >= b) and (a >= c):
7     largest = a
8 elif (b >= a) and (b >= c):
9     largest = b
10 else:
11     largest = c
12
13 print(largest)

```

Test Results:

Average time: 0.009 s | Maximum time: 0.012 s | 8.50 ms | 12.00 ms

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

Test Case 1:

Expected output: 5
Actual output: 5

Buttons at the bottom:

< Prev | Reset | Submit | Next >