

## Problem Statement:

Java program to find the contiguous subarray within a one-dimensional array of numbers (containing at least one positive number) which has the largest sum.

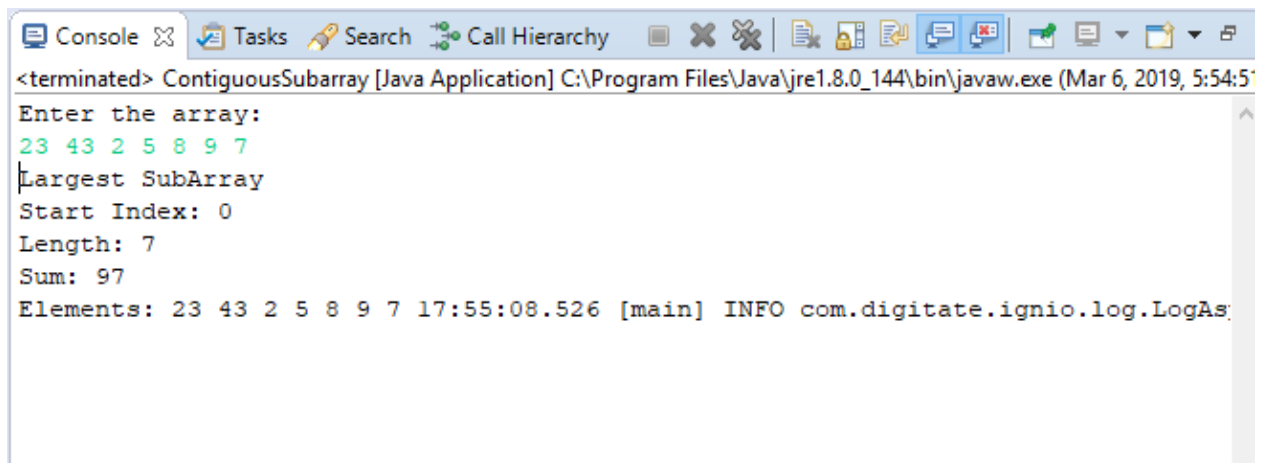
## Explanation:

Java program will take the integer array entered by user, will find out contiguous with largest sum.

## Test cases:

1.

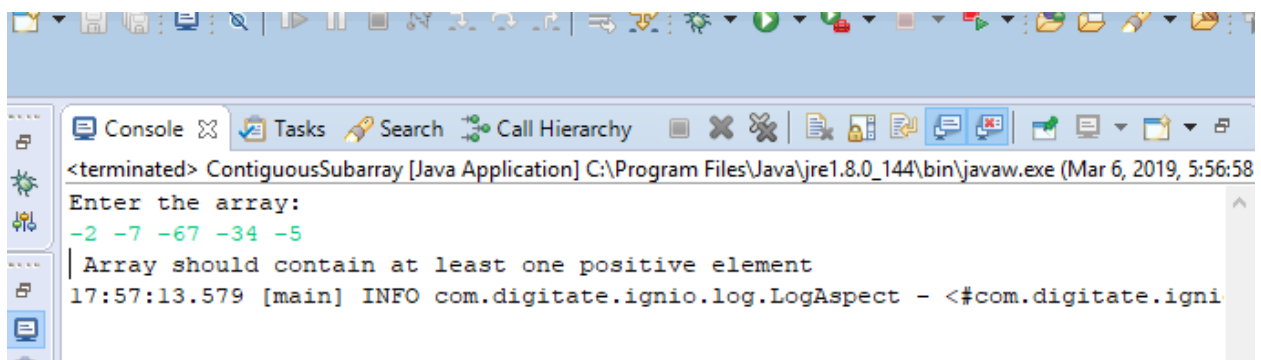
If array contains all positive integers, contiguous subarray should be the whole array entered by user and sum should be sum of all elements in the array.



```
<terminated> ContiguousSubarray [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Mar 6, 2019, 5:54:51)
Enter the array:
23 43 2 5 8 9 7
Largest SubArray
Start Index: 0
Length: 7
Sum: 97
Elements: 23 43 2 5 8 9 7 17:55:08.526 [main] INFO com.digitate.ignio.log.LogAspect
```

2.

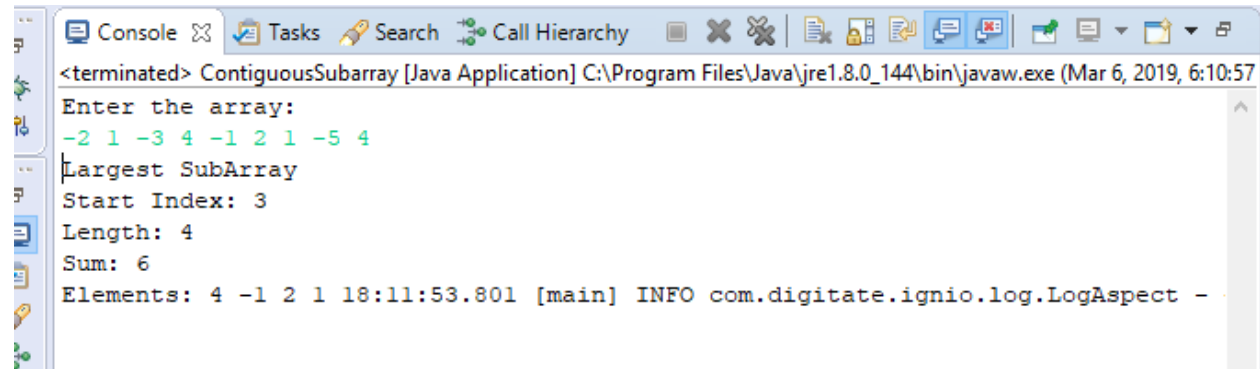
If array contains all negative integers, then program should terminate with proper message.



```
<terminated> ContiguousSubarray [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Mar 6, 2019, 5:56:58)
Enter the array:
-2 -7 -67 -34 -5
Array should contain at least one positive element
17:57:13.579 [main] INFO com.digitate.ignio.log.LogAspect - <#com.digitate.igni
```

3.

If array contains at least one positive integer and one or more negative integers, contiguous subarray with largest sum should be returned.



```
<terminated> ContiguousSubarray [Java Application] C:\Program Files\Java\jre1.8.0_144\bin\javaw.exe (Mar 6, 2019, 6:10:57)
Enter the array:
-2 1 -3 4 -1 2 1 -5 4
Largest SubArray
Start Index: 3
Length: 4
Sum: 6
Elements: 4 -1 2 1 18:11:53.801 [main] INFO com.digitate.ignio.log.LogAspect -
```