https://course.acciojob.com/idle?question=8bff3159-40be-4f88-92f0-5c844894b12e

- MEDIUM
- Max Score: 40 Points

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Maximum Sum Subarray

Given an array arr of size n. The task is to find the sum of the contiguous subarray within a arr with the largest sum.

Input Format

First line consists of an integer ${\tt n}$

Second line consists of n spaced integers

Output Format

Print the maximum subarray sum present in the array

Example 1

Input

```
5
2 3 1 -1 0

Output
6

Explanation
```

Maximum subarray sum = 2 + 3 + 1

Example 2

Input

```
8
-2 -3 4 -1 -2 1 5 -3
```

Output

7

Explanation

Maximum subarray sum = 4-1-2+1+5

Constraints

```
1 <= n <= 10^4
-100 <= arr[i] <= 100
```

Topic Tags

Arrays

My code

```
// n java
// Java program to print largest contiguous array sum
import java.util.*;
public class Main {
 // Driver Code
 public static void main(String[] args) {
  Scanner sc = new Scanner(System.in);
  int n = sc.nextInt();
  int[] arr = new int[n];
  for (int i = 0; i < n; i++) arr[i] = sc.nextInt();
  sc.close();
  System.out.println(maxSubArraySum(arr));
 }
 // Function Call
 static int maxSubArraySum(int a[]) {
  // your code here
      int n=a.length;
      int ans=0:
      int sum=0;
      for(int i=0;i< n;i++)
                 sum=sum+a[i];
                 if(sum>ans)
                       ans=sum;
```