https://course.acciojob.com/idle?question=4265d603-e34e-4d86-84e 8-0ce3c938c197

- MEDIUM
- Max Score: 40 Points
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Maximum Contiguous Subarray Sum

Given an array, A of length n.

Your task is to find the contiguous subarray within A which has the largest sum.

Input Format

The first line of each test case contains an integer n, the length of the array A.

The next line contains n integers.

Output Format

Output an integer representing the maximum possible sum of the contiguous subarray.

Example 1

Input

```
1 2 3 4 -10
```

Output

10

Explanation

```
1 + 2 + 3 + 4 = 10
```

Example 2

Input

```
6
2 -1 0 1 2 1
```

Output

5

Explanation

The sum of the entire array i.e 5.

Constraints

```
1 <= N <= 10^5
```

Topic Tags

Arrays

My code

```
// n java
import java.util.*;
import java.lang.*;
import java.io.*;
public class Main
     public static void main (String[] args) throws
java.lang.Exception
           //your code here
    Scanner s=new Scanner(System.in);
    int n=s.nextInt();
    int arr[]=new int[n];
    for(int i=0;i<n;i++)
     arr[i]=s.nextInt();
    int max=arr[0];
    for(int i=0;i< n;i++){
      int sum=arr[i];
      if(max<sum) max=sum;
    for(int j=i+1;j<n;j++)
       sum+=arr[j];
       if(max<sum) max=sum;
    }
```

System.out.print(max);

```
}
```