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# MaxSum

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Problem

Submissions

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Given an array  $A$  find a non-empty contiguous subarray that has maximum sum. Implement a **linear time** algorithm for the problem.

## Input Format

$N$   
 $A_0 A_1 \dots A_{N-1}$

## Constraints

$$1 \leq N \leq 10^6$$

$$-100 \leq A_i \leq 100$$

## Output Format

Sum of a sub-array of  $A$  which has the largest sum

## Sample Input

10  
50 -21 11 18 22 -10 -18 0 4 2

## Sample Output

80

## Explanation

The largest sum subarray is [50,-21,11,18,22].

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Submissions: 61

Max Score: 4

Difficulty: Medium

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C++



```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
```

```
9  int main() {  
10  /* Enter your code here. Read input from STDIN. Print output to STDOUT */  
11  return 0;  
12  }  
13
```

Line: 1 Col: 1

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