MaxSum

locked

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Problem Submissions Leaderboard Discussions

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
A0 A1 ... AN-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].

Submissions: 61
Max Score: 4
Difficulty: Medium

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Current Buffer (saved locally, editable) C++

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

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

```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code