MaximumSumK

locked

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Problem Submissions Leaderboard Discussions

Given an array A with N integers and an integer k, find a contiguous subarray of size k which has maximum sum. Implement a **linear time** algorithm for the problem.

Input Format

```
N k
A0 A1 ... AN-1
```

Constraints

$1 \leq N \leq 10^6$

$1 \leq k \leq N$

$-100 \leq A_i \leq 100$

Output Format

```
Sum of a sub-array of size k in A having largest sum
```

Sample Input

```
10 2
14 -8 6 4 -13 17 -12 7 0 0
```

Sample Output

```
10
```

Explanation

10 is sum of the largest subarray of size 2 (6+4).

Submissions: 65
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
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

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