





CSES Problem Set

Maximum Subarray Sum II

TASK | SUBMIT | RESULTS | STATISTICS

Time limit: 1.00 s **Memory limit:** 512 MB

Given an array of n integers, your task is to find the maximum sum of values in a contiguous subarray with length between a and b.

Input

The first input line has three integers n, a and b: the size of the array and the minimum and maximum subarray length.

The second line has n integers x_1, x_2, \ldots, x_n : the array values.

Output

Print one integer: the maximum subarray sum.

Constraints

- $1 \le n \le 2 \cdot 10^5$
- $1 \le a \le b \le n$
- $-10^9 \le x_i \le 10^9$

Example

Input: 8 1 2

-1 3 -2 5 3 -5 2 2

Output:

Sorting and Searching

Subarray Sums II Subarray Divisibility

Subarray Distinct Values

Array Division

Sliding Median

Sliding Cost

Movie Festival II

Maximum Subarray Sum II

_

Your submissions