







CSES Problem Set

Maximum Subarray Sum

TASK | SUBMIT | RESULTS | STATISTICS | TESTS

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, nonempty subarray.

Input

The first input line has an integer n: the size of the array.

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

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

Example

Input:

-1 3 -2 5 3 -5 2 2

Output:

9

Sorting and Searching

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Restaurant Customers Movie Festival

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Sum of Two Values

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Maximum Subarray Sum

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Stick Lengths
Missing Coin Sum

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Collecting Numbers

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Collecting Numbers II

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Your submissions