

## Problem C. Maximum Subarray Sum II

**Time limit** 1000 ms

**Mem limit** 524288 kB

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  $x_1, x_2, \dots, x_n$ : the array values.

### Output

Print one integer: the maximum subarray sum.

### Constraints

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

### Example

Input	Output
8 1 2 -1 3 -2 5 3 -5 2 2	8