

Geometry

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

points: 100 · problem code: geometry · author: jbroeksteeg

Problem Description

Josh loves competitive programming and normally gets some enjoyment out of solving problems. However, Josh hates geometry problems, because they make him horribly depressed.

Tonight's Codeforces contest can be modeled as an array of n integers, where the i th value of the array is a positive integer representing the enjoyment he will gain from solving the i th problem. The exception to this rule is *geometry problems*, of which there will likely be some. These are represented by the value -999999999.

Josh knows that he only has time for k problems and only wants to do consecutive problems. Given the array of enjoyments a , what is the largest sum of up to k consecutive values?

Input Format

The first line of the input will be two integers, n and k . The next line of the input will consist of n integers, representing a .

Output Format

Output a single integer, the maximum sum of a subarray of a that is length k .

Constraints

$$n \leq 1e5$$

$$k \leq n$$

$$1 \leq a[i] \leq 1e3$$

Sample Input 1

```
5 3
-999999999 3 1 4 -999999999
```

Sample Output 1

```
8
```

Sample Input 2

```
10 4
289 -999999999 648 178 18 213 514 771 350 312
```

Sample Output 2

```
1947
```