

Largest Sum Subarray of Size at least K

Given an array **a** of length **n** and a number **k**, find the **largest sum** of the **subarray** containing **at least k** numbers. It is guaranteed that the size of array is **at-least k**.

Example 1:

Input :

`n = 4`

`a[] = {1, -2, 2, -3}`

`k = 2`

Output :

1

Explanation :

The sub-array of length at-least 2 that produces greatest sum is {1, -2, 2}

Example 2:

Input :

`n = 6`

`a[] = {1, 1, 1, 1, 1, 1}`

`k = 2`

Output :

6

Explanation :

The sub-array of length at-least 2 that produces greatest sum is {1, 1, 1, 1, 1, 1}

Your Task:

You don't need to read input or print anything. Your task is to complete the function **maxSumWithK()** which takes the array **a[]**, its size **n** and an integer **k** as inputs and returns the value of the **largest sum** of the subarray containing **at least k** numbers.

Expected Time Complexity: $O(n)$

Expected Auxiliary Space: $O(n)$

Constraints:

$1 \leq n \leq 10^5$

$-10^5 \leq a[i] \leq 10^5$

$1 \leq k \leq n$