

6919. Apply Operations to Make All Array Elements Equal to Zero

[My Submissions \(/contest/weekly-contest-353/problems/apply-operations-to-make-all-array-elements-equal-to-zero/submissions/\)](#)[Back to Contest \(/contest/weekly-contest-353/\)](#)

You are given a **0-indexed** integer array `nums` and a positive integer `k`.

You can apply the following operation on the array **any** number of times:

- Choose **any** subarray of size `k` from the array and **decrease** all its elements by `1`.

Return `true` if you can make all the array elements equal to `0`, or `false` otherwise.

A **subarray** is a contiguous non-empty part of an array.

User Accepted:	0
User Tried:	2
Total Accepted:	0
Total Submissions:	2
Difficulty:	Medium

Example 1:

Input: `nums = [2,2,3,1,1,0]`, `k = 3`

Output: `true`

Explanation: We can do the following operations:

- Choose the subarray `[2,2,3]`. The resulting array will be `nums = [1,1,2,1,1,0]`.
- Choose the subarray `[2,1,1]`. The resulting array will be `nums = [1,1,1,0,0,0]`.
- Choose the subarray `[1,1,1]`. The resulting array will be `nums = [0,0,0,0,0,0]`.

Example 2:

Input: `nums = [1,3,1,1]`, `k = 2`

Output: `false`

Explanation: It is not possible to make all the array elements equal to `0`.

Constraints:

- $1 \leq k \leq \text{nums.length} \leq 10^5$
- $0 \leq \text{nums}[i] \leq 10^6$

JavaScript



```
1 const checkArray = (a, k) => {  
2   let cur = 0;  
3   for (let i = 0; i < a.length; i++) {  
4     if (a[i] < cur) return false;  
5     a[i] -= cur;  
6     cur += a[i];  
7     if (i - k + 1 >= 0) cur -= a[i - k + 1];  
8   }  
9   return cur ? false : true;  
10 };
```

☐ Custom Testcase[Use Example Testcases](#)

 Run

 Submit

Submission Result: **Accepted** (/submissions/detail/989922427/) ⓘ

More Details ➤ (/submissions/detail/989922427/)

Share your acceptance!

Copyright © 2023 LeetCode

[Help Center \(/support\)](#) | [Jobs \(/jobs\)](#) | [Bug Bounty \(/bugbounty\)](#) | [Online Interview \(/interview/\)](#) | [Students \(/student\)](#) | [Terms \(/terms\)](#) | [Privacy Policy \(/privacy\)](#)

 [United States \(/region\)](#)