

6119. Subarray With Elements Greater Than Varying Threshold

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You are given an integer array `nums` and an integer `threshold`.

Find any subarray of `nums` of length `k` such that **every** element in the subarray is **greater** than `threshold / k`.

Return the **size of any such subarray**. If there is no such subarray, return `-1`.

A **subarray** is a contiguous non-empty sequence of elements within an array.

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

Example 1:

Input: `nums = [1,3,4,3,1]`, `threshold = 6`
Output: `3`
Explanation: The subarray `[3,4,3]` has a size of 3, and every element is greater than `6 / 3 = 2`. Note that this is the only valid subarray.

Example 2:

Input: `nums = [6,5,6,5,8]`, `threshold = 7`
Output: `1`
Explanation: The subarray `[8]` has a size of 1, and `8 > 7 / 1 = 7`. So 1 is returned. Note that the subarray `[6,5]` has a size of 2, and every element is greater than `7 / 2 = 3.5`. Similarly, the subarrays `[6,5,6]`, `[6,5,6,5]`, `[6,5,6,5,8]` also satisfy the given conditions. Therefore, 2, 3, 4, or 5 may also be returned.

Constraints:

- `1 <= nums.length <= 105`
- `1 <= nums[i], threshold <= 109`

Java

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```
1 class Solution {
2     public int validSubarraySize(int[] nums, int threshold) {
3
4     }
5 }
```

☐ Custom Testcase

Use Example Testcases