

1343. Number of Sub-arrays of Size K and Average Greater than or Equal to Threshold

Description

Given an array of integers `arr` and two integers `k` and `threshold`, return *the number of sub-arrays of size `k` and average greater than or equal to `threshold`*.

Example 1:

Input: `arr = [2,2,2,2,5,5,5,8]`, `k = 3`, `threshold = 4`

Output: 3

Explanation: Sub-arrays `[2,5,5]`, `[5,5,5]` and `[5,5,8]` have averages 4, 5 and 6 respectively. All other sub-arrays of size 3 have averages less than 4 (the threshold).

Example 2:

Input: `arr = [11,13,17,23,29,31,7,5,2,3]`, `k = 3`, `threshold = 5`

Output: 6

Explanation: The first 6 sub-arrays of size 3 have averages greater than 5. Note that averages are not integers.

Constraints:

- `1 <= arr.length <= 105`
- `1 <= arr[i] <= 104`
- `1 <= k <= arr.length`
- `0 <= threshold <= 104`

