

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

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 71.20%

**Paid Only:** No

**Tags:** Array, Sliding Window

## Problem 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`

## Code Snippets

C++:

```
class Solution {  
public:  
    int numOfSubarrays(vector<int>& arr, int k, int threshold) {  
        }  
    };
```

**Java:**

```
class Solution {  
public int numOfSubarrays(int[] arr, int k, int threshold) {  
    }  
}
```

**Python3:**

```
class Solution:  
    def numOfSubarrays(self, arr: List[int], k: int, threshold: int) -> int:
```