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100137. Count Subarrays Where Max Element Appears at Least K Times

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You are given an integer array nums and a positive integer k.

Return the number of subarrays where the maximum element of nums appears at least k times in that subarray.

A subarray is a contiguous sequence of elements within an array.

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

Example 1:

```
Input: nums = [1,3,2,3,3], k = 2
Output: 6
Explanation: The subarrays that contain the element 3 at least 2 times are: [1,3,2,3],
```

Example 2:

```
Input: nums = [1,4,2,1], k = 3
Output: 0
Explanation: No subarray contains the element 4 at least 3 times.
```

Constraints:

- 1 <= nums.length <= 10⁵
- $1 \le nums[i] \le 10^6$
- 1 <= k <= 10⁵

```
JavaScript
                                                                                                                 2 *
 1 ▼ function Bisect() {
        return { insort_right, insort_left, bisect_left, bisect_right }
 2
 3 •
        function insort_right(a, x, lo = 0, hi = null) {
 4
            lo = bisect_right(a, x, lo, hi);
 5
            a.splice(lo, 0, x);
 6
        function bisect_right(a, x, lo = 0, hi = null) { // > upper_bound}
 7
            if (lo < 0) throw new Error('lo must be non-negative');
 8
            if (hi == null) hi = a.length;
9
10 •
            while (lo < hi) {
                let mid = parseInt((lo + hi) / 2);
11
12
                a[mid] > x ? hi = mid : lo = mid + 1;
13
14
            return lo;
15
        function insort_left(a, x, lo = 0, hi = null) {
16
17
            lo = bisect_left(a, x, lo, hi);
            a.splice(lo, 0, x);
18
19
        }
20 ▼
        function bisect_left(a, x, lo = 0, hi = null) { // >= lower_bound}
            if (lo < 0) throw new Error('lo must be non-negative');
21
22
            if (hi == null) hi = a.length;
            while (lo < hi) {
23 •
                let mid = parseInt((lo + hi) / 2);
24
25
                a[mid] < x ? lo = mid + 1 : hi = mid;
26
            }
27
            return lo;
28
        }
```

```
29
    }
30
31 \vee \text{const countSubarrays} = (a, k) \Rightarrow \{
32
         let max = Math.max(...a), ia = [], bi = new Bisect(), res = 0;
33 •
         a.map((x, i) \Rightarrow \{
              if (x == max) ia.push(i);
34
35
         })
36 ▼
         a.map((x, i) \Rightarrow \{
37
              let idx = bi.bisect_left(ia, i), atLeast = idx + k - 1, startIdx = ia[atLeast];
38 ▼
              if (startIdx != undefined) {
39
                  cnt = a.length - startIdx;
40
                  res += cnt;
41
              }
42
         })
43
         return res;
    };
44
```

□ Custom Testcase

Use Example Testcases

Submission Result: Accepted (/submissions/detail/1116180943/) @

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