6248. Count Subarrays With Median K

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You are given an array nums of size n consisting of **distinct** integers from 1 to n and a positive integer k.

Return the number of non-empty subarrays in nums that have a **median** equal to k.

Note:

- The median of an array is the middle element after sorting the array in ascending order. If the array is of even length, the median is the left middle element.
 - \circ For example, the median of [2,3,1,4] is 2, and the median of [8,4,3,5,1] is 4.
- A subarray is a contiguous part of an array.

User Accepted:	1
User Tried:	3
Total Accepted:	1
Total Submissions:	3
Difficulty:	Hard

ref=nb_npl)

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Example 1:

```
Input: nums = [3,2,1,4,5], k = 4
Output: 3
Explanation: The subarrays that have a median equal to 4 are: [4], [4,5] and [1,4,5].
```

Example 2:

```
Input: nums = [2,3,1], k = 3
Output: 1
Explanation: [3] is the only subarray that has a median equal to 3.
```

Constraints:

- n == nums.length
- $1 \le n \le 10^5$
- $1 \le nums[i]$, $k \le n$
- The integers in nums are distinct.

```
JavaScript
                                                                                                                                  \boldsymbol{z}
                                                                                                                            क
1
    const countSubarrays = (a, k) => permutationArrayWithMedianK(a, k);
2
    const permutationArrayWithMedianK = (a, k) \Rightarrow \{
3 •
        let m = new Map([[0, 1]]), find = false, cnt = 0, res = 0;
5 •
        for (const x of a) {
 6
             if (x < k) {
 7
                 cnt--;
 8
             } else if (x > k) {
                 cnt++;
10 ▼
             } else {
11
                 find = true;
12
             if (find) {
13
                 res += (m.get(cnt) || 0) + (m.get(cnt - 1) || 0);
14
15 ▼
             } else {
16
                 m.set(cnt, m.get(cnt) + 1 || 1);
17
        }
18
19
        return res;
20
    };
```

☐ Custom Testcase

Use Example Testcases



Submission Result: Accepted (/submissions/detail/850473792/) ?

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