Problem 1248: Count Number of Nice Subarrays

Problem Information

Difficulty: Medium
Acceptance Rate: 74.34%
Paid Only: No
Tags: Array, Hash Table, Math, Sliding Window, Prefix Sum

Problem Description

Given an array of integers `nums` and an integer `k`. A continuous subarray is called **nice** if there are `k` odd numbers on it.

Return _the number of**nice** sub-arrays_.

Example 1:

Input: nums = [1,1,2,1,1], k = 3 **Output:** 2 **Explanation:** The only sub-arrays with 3 odd numbers are [1,1,2,1] and [1,2,1,1].

Example 2:

Input: nums = [2,4,6], k = 1 **Output:** 0 **Explanation:** There are no odd numbers in the array.

Example 3:

Input: nums = [2,2,2,1,2,2,1,2,2,2], k = 2 **Output:** 16

Constraints:

* `1 <= nums.length <= 50000` * `1 <= nums[i] <= 10^5` * `1 <= k <= nums.length`

Code Snippets

C++:

```
class Solution {
public:
int numberOfSubarrays(vector<int>& nums, int k) {

}
};
```

Java:

```
class Solution {
public int numberOfSubarrays(int[] nums, int k) {

}
}
```

Python3:

```
class Solution:
def numberOfSubarrays(self, nums: List[int], k: int) -> int:
```