3795. Minimum Subarray Length With Distinct Sum At Least K

Solved

Medium Topics Hint

You are given an integer array `nums` and an integer `k`.

Return the **minimum** length of a **subarray** whose sum of the **distinct** values present in that subarray (each value counted once) is **at least** `k`. If no such subarray exists, return -1.

Example 1:

> **Input:** nums = [2,2,3,1], k = 4
>
> **Output:** 2
>
> **Explanation:**
>
> The subarray `[2, 3]` has distinct elements `{2, 3}` whose sum is `2 + 3 = 5`, which is at least `k = 4`. Thus, the answer is 2.

Example 2:

> **Input:** nums = [3,2,3,4], k = 5
>
> **Output:** 2
>
> **Explanation:**
>
> The subarray `[3, 2]` has distinct elements `{3, 2}` whose sum is `3 + 2 = 5`, which is at least `k = 5`. Thus, the answer is 2.

Example 3:

> **Input:** nums = [5,5,4], k = 5
>
> **Output:** 1
>
> **Explanation:**
>
> The subarray `[5]` has distinct elements `{5}` whose sum is `5`, which is at least `k = 5`. Thus, the answer is 1.

Constraints:

- `1 <= nums.length <= 10^5`
- `1 <= nums[i] <= 10^5`
- `1 <= k <= 10^9`

Seen this question in a real interview before? 1/5

Yes No

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Topics

Hint 1

Hint 2

Hint 3

Discussion (45)