3346. Maximum Frequency of an Element After Performing Operations I

Solved

Medium Topics Hint

You are given an integer array `nums` and two integers `k` and `numOperations`.

You must perform an **operation** `numOperations` times on `nums`, where in each operation you:

- Select an index `i` that was **not** selected in any previous operations.
- Add an integer in the range `[-k, k]` to `nums[i]`.

Return the **maximum** possible frequency of any element in `nums` after performing the **operations**.

Example 1:

> **Input:** nums = [1,4,5], k = 1, numOperations = 2
>
> **Output:** 2
>
> **Explanation:**
>
> We can achieve a maximum frequency of two by:
>
> - Adding 0 to `nums[1]`. `nums` becomes `[1, 4, 5]`.
> - Adding -1 to `nums[2]`. `nums` becomes `[1, 4, 4]`.

Example 2:

> **Input:** nums = [5,11,20,20], k = 5, numOperations = 1
>
> **Output:** 2
>
> **Explanation:**
>
> We can achieve a maximum frequency of two by:
>
> - Adding 0 to `nums[1]`.

Constraints:

- $1 <= nums.length <= 10^5$
- $1 <= nums[i] <= 10^5$
- $0 <= k <= 10^5$
- $0 <= numOperations <= nums.length$

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

Yes No

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Topics

Hint 1

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