Problem 3159: Find Occurrences of an Element in an Array

Problem Information

Difficulty: Medium
Acceptance Rate: 73.12%
Paid Only: No
Tags: Array, Hash Table

Problem Description

You are given an integer array `nums`, an integer array `queries`, and an integer `x`.

For each `queries[i]`, you need to find the index of the `queries[i]th` occurrence of `x` in the `nums` array. If there are fewer than `queries[i]` occurrences of `x`, the answer should be -1 for that query.

Return an integer array `answer` containing the answers to all queries.

Example 1:

Input: nums = [1,3,1,7], queries = [1,3,2,4], x = 1

Output: [0,-1,2,-1]

Explanation:

* For the 1st query, the first occurrence of 1 is at index 0. * For the 2nd query, there are only two occurrences of 1 in `nums`, so the answer is -1. * For the 3rd query, the second occurrence of 1 is at index 2. * For the 4th query, there are only two occurrences of 1 in `nums`, so the answer is -1.

Example 2:

Input: nums = [1,2,3], queries = [10], x = 5

Output: [-1]

Explanation:

* For the 1st query, 5 doesn't exist in `nums`, so the answer is -1.

Constraints:

* `1 <= nums.length, queries.length <= 105` * `1 <= queries[i] <= 105` * `1 <= nums[i], x <= 104`

Code Snippets

C++:

```cpp
class Solution {
public:
vector<int> occurrencesOfElement(vector<int>& nums, vector<int>& queries, int x) {

}
};
```

Java:

```java
class Solution {
public int[] occurrencesOfElement(int[] nums, int[] queries, int x) {

}
}
```

Python3:

```python
class Solution:
def occurrencesOfElement(self, nums: List[int], queries: List[int], x: int) -> List[int]:
```