Problem 2107: Number of Unique Flavors After Sharing K Candies

Problem Information

Difficulty: Medium
Acceptance Rate: 60.44%
Paid Only: Yes
Tags: Array, Hash Table, Sliding Window

Problem Description

You are given a **0-indexed** integer array `candies`, where `candies[i]` represents the flavor of the `ith` candy. Your mom wants you to share these candies with your little sister by giving her `k` **consecutive** candies, but you want to keep as many flavors of candies as possible.

Return _the**maximum** number of **unique** flavors of candy you can keep after sharing __with your sister._

Example 1:

Input: candies = [1,_2,2,3_ ,4,3], k = 3 **Output:** 3 **Explanation:** Give the candies in the range [1, 3] (inclusive) with flavors [2,2,3]. You can eat candies with flavors [1,4,3]. There are 3 unique flavors, so return 3.

Example 2:

Input: candies = [2,2,2,_2,3_ ,3], k = 2 **Output:** 2 **Explanation:** Give the candies in the range [3, 4] (inclusive) with flavors [2,3]. You can eat candies with flavors [2,2,2,3]. There are 2 unique flavors, so return 2. Note that you can also share the candies with flavors [2,2] and eat the candies with flavors [2,2,3,3].

Example 3:

Input: candies = [2,4,5], k = 0 **Output:** 3 **Explanation:** You do not have to give any candies. You can eat the candies with flavors [2,4,5]. There are 3 unique flavors, so return 3.

Constraints:

* `0 <= candies.length <= 105` * `1 <= candies[i] <= 105` * `0 <= k <= candies.length`

Code Snippets

C++:

```
class Solution {
public:
int shareCandies(vector<int>& candies, int k) {

}
};
```

Java:

```
class Solution {
public int shareCandies(int[] candies, int k) {

}
}
```

Python3:

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