

Problem 340: Longest Substring with At Most K Distinct Characters

Problem Information

Difficulty: Medium

Acceptance Rate: 49.75%

Paid Only: Yes

Tags: Hash Table, String, Sliding Window

Problem Description

Given a string `s` and an integer `k`, return the length of the longest substring that contains at most `k` distinct characters.

Example 1:

Input: `s = "eceba", k = 2` **Output:** `3` **Explanation:** The substring is "ece" with length 3.

Example 2:

Input: `s = "aa", k = 1` **Output:** `2` **Explanation:** The substring is "aa" with length 2.

Constraints:

`1 <= s.length <= 5 * 104` `0 <= k <= 50`

Code Snippets

C++:

```
class Solution {
public:
    int lengthOfLongestSubstringKDistinct(string s, int k) {

    }
}
```

```
};
```

Java:

```
class Solution {  
    public int lengthOfLongestSubstringKDistinct(String s, int k) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def lengthOfLongestSubstringKDistinct(self, s: str, k: int) -> int:
```