Problem 1297: Maximum Number of Occurrences of a Substring

Problem Information

Difficulty: Medium
Acceptance Rate: 54.02%
Paid Only: No
Tags: Hash Table, String, Sliding Window

Problem Description

Given a string `s`, return the maximum number of occurrences of **any** substring under the following rules:

* The number of unique characters in the substring must be less than or equal to `maxLetters`. * The substring size must be between `minSize` and `maxSize` inclusive.

Example 1:

Input: s = "aababcaab", maxLetters = 2, minSize = 3, maxSize = 4 **Output:** 2 **Explanation:** Substring "aab" has 2 occurrences in the original string. It satisfies the conditions, 2 unique letters and size 3 (between minSize and maxSize).

Example 2:

Input: s = "aaaa", maxLetters = 1, minSize = 3, maxSize = 3 **Output:** 2 **Explanation:** Substring "aaa" occur 2 times in the string. It can overlap.

Constraints:

* `1 <= s.length <= 105` * `1 <= maxLetters <= 26` * `1 <= minSize <= maxSize <= min(26, s.length)` * `s` consists of only lowercase English letters.

Code Snippets

C++:

```
class Solution {
public:
int maxFreq(string s, int maxLetters, int minSize, int maxSize) {

}
};
```

Java:

```
class Solution {
public int maxFreq(String s, int maxLetters, int minSize, int maxSize) {

}
}
```

Python3:

```
class Solution:
def maxFreq(self, s: str, maxLetters: int, minSize: int, maxSize: int) ->
int:
```