Problem 763: Partition Labels

Problem Information

Difficulty: Medium
Acceptance Rate: 81.70%
Paid Only: No
Tags: Hash Table, Two Pointers, String, Greedy

Problem Description

You are given a string `s`. We want to partition the string into as many parts as possible so that each letter appears in at most one part. For example, the string `"ababcc"` can be partitioned into `["abab", "cc"]`, but partitions such as `["aba", "bcc"]` or `["ab", "ab", "cc"]` are invalid.

Note that the partition is done so that after concatenating all the parts in order, the resultant string should be `s`.

Return _a list of integers representing the size of these parts_.

Example 1:

Input: s = "ababcbacadefegdehijhklij" **Output:** [9,7,8] **Explanation:** The partition is "ababcbaca", "defegde", "hijhklij". This is a partition so that each letter appears in at most one part. A partition like "ababcbacadefegde", "hijhklij" is incorrect, because it splits s into less parts.

Example 2:

Input: s = "eccbbbbdec" **Output:** [10]

Constraints:

* `1 <= s.length <= 500` * `s` consists of lowercase English letters.

Code Snippets

C++:

```cpp
class Solution {
public:
vector<int> partitionLabels(string s) {


}
};
```

Java:

```java
class Solution {
public List<Integer> partitionLabels(String s) {


}
}
```

Python3:

```python
class Solution:
def partitionLabels(self, s: str) -> List[int]:
```