

Problem 1316: Distinct Echo Substrings

Problem Information

Difficulty: Hard

Acceptance Rate: 52.63%

Paid Only: No

Tags: String, Trie, Rolling Hash, Hash Function

Problem Description

Return the number of **distinct** non-empty substrings of `text` that can be written as the concatenation of some string with itself (i.e. it can be written as `a + a` where `a` is some string).

Example 1:

Input: text = "abcabcabc" **Output:** 3 **Explanation:** The 3 substrings are "abcabc", "bcabca" and "cabcab".

Example 2:

Input: text = "leetcodeleetcode" **Output:** 2 **Explanation:** The 2 substrings are "ee" and "leetcodeleetcode".

Constraints:

* `1 <= text.length <= 2000` * `text` has only lowercase English letters.

Code Snippets

C++:

```
class Solution {
public:
    int distinctEchoSubstrings(string text) {
```

```
    }  
};
```

Java:

```
class Solution {  
    public int distinctEchoSubstrings(String text) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def distinctEchoSubstrings(self, text: str) -> int:
```