# Problem 3557: Find Maximum Number of Non Intersecting Substrings

## Problem Information

**Difficulty:** Medium
**Acceptance Rate:** 29.95%
**Paid Only:** No
**Tags:** Hash Table, String, Dynamic Programming, Greedy

## Problem Description

You are given a string `word`.

Return the **maximum** number of non-intersecting **substrings** of word that are at **least** four characters long and start and end with the same letter.

**Example 1:**

**Input:** word = "abcdeafdef"

**Output:** 2

**Explanation:**

The two substrings are `"abcdea"` and `"fdef"`.

**Example 2:**

**Input:** word = "bcdaaaab"

**Output:** 1

**Explanation:**

The only substring is `"aaaa"`. Note that we cannot **also** choose `"bcdaaaab"` since it intersects with the other substring.

**Constraints:**

* `1 <= word.length <= 2 * 105` * `word` consists only of lowercase English letters.

## Code Snippets

**C++:**

```
class Solution {
public:
int maxSubstrings(string word) {

}
};
```

**Java:**

```
class Solution {
public int maxSubstrings(String word) {

}
}
```

**Python3:**

```
class Solution:
def maxSubstrings(self, word: str) -> int:
```