

# Problem 647: Palindromic Substrings

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 72.26%

**Paid Only:** No

**Tags:** Two Pointers, String, Dynamic Programming

## Problem Description

Given a string `s`, return the number of palindromic substrings in it.

A string is a **palindrome** when it reads the same backward as forward.

A **substring** is a contiguous sequence of characters within the string.

**Example 1:**

**Input:** `s = "abc"` **Output:** 3 **Explanation:** Three palindromic strings: "a", "b", "c".

**Example 2:**

**Input:** `s = "aaa"` **Output:** 6 **Explanation:** Six palindromic strings: "a", "a", "a", "aa", "aa", "aaa".

**Constraints:**

`1 <= s.length <= 1000` `s` consists of lowercase English letters.

## Code Snippets

**C++:**

```
class Solution {  
public:
```

```
int countSubstrings(string s) {  
  
}  
};
```

### Java:

```
class Solution {  
    public int countSubstrings(String s) {  
  
    }  
}
```

### Python3:

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