

# Problem 5: Longest Palindromic Substring

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 36.77%

**Paid Only:** No

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

## Problem Description

Given a string `s`, return \_the longest\_ \_palindromic\_ \_substring\_ in `s`.

**Example 1:**

**Input:** s = "babad" **Output:** "bab" **Explanation:** "aba" is also a valid answer.

**Example 2:**

**Input:** s = "cbbd" **Output:** "bb"

**Constraints:**

\* `1 <= s.length <= 1000` \* `s` consist of only digits and English letters.

## Code Snippets

**C++:**

```
class Solution {
public:
    string longestPalindrome(string s) {
        }
};
```

**Java:**

```
class Solution {  
    public String longestPalindrome(String s) {  
        }  
    }
```

**Python3:**

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