

Problem 1312: Minimum Insertion Steps to Make a String Palindrome

Problem Information

Difficulty: **Hard**

Acceptance Rate: 73.31%

Paid Only: No

Tags: String, Dynamic Programming

Problem Description

Given a string `s`. In one step you can insert any character at any index of the string.

Return `_` the minimum number of steps `_` to make `s` palindrome.

A **Palindrome String** is one that reads the same backward as well as forward.

Example 1.

Input: `s = "zzazz"` **Output:** `0` **Explanation:** The string "zzazz" is already palindrome we do not need any insertions.

Example 2.

Input: `s = "mbadm"` **Output:** `2` **Explanation:** String can be "mbdadbm" or "mdbabdm".

Example 3.

Input: `s = "leetcode"` **Output:** `5` **Explanation:** Inserting 5 characters the string becomes "leetcodocteel".

Constraints:

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

Code Snippets

C++:

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

Java:

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

Python3:

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