

1437. Minimum Insertion Steps to Make a String Palindrome

Difficulty : Hard

<https://leetcode.com/problems/minimum-insertion-steps-to-make-a-string-palindrome>

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: $s = \text{"zzazz"}$

Output: 0

Explanation: The string "zzazz" is already palindrome we do not need any insertions.

Example 2:

Input: $s = \text{"mbadm"}$

Output: 2

Explanation: String can be "mbdadb" or "mdbabdm".

Example 3:

Input: $s = \text{"leetcode"}$

Output: 5

Explanation: Inserting 5 characters the string becomes "leetcodocteel".

Constraints:

- $1 \leq s.length \leq 500$
- s consists of lowercase English letters.