6036. Sum of Scores of Built Strings

My Submissions (/contest/biweekly-contest-75/problems/sum-of-scores-of-built-strings/submissions/) Back to Contest (/contest/biweekly-contest-75/) You are building a string s of length n one character at a time, prepending each new character to the front of the string. User Accepted: 0 The strings are labeled from 1 to n , where the string with length i is labeled $\,s_{\,i}\,.$ User Tried: 0 • For example, for s = "abaca", $s_1 == "a"$, $s_2 == "ca"$, $s_3 == "aca"$, etc. The **score** of s_i is the length of the **longest common prefix** between s_i and s_n (Note that $s == s_n$). Total Accepted: 0 Given the final string s, return the **sum** of the **score** of every s_i . **Total Submissions:** 0 Difficulty: (Hard)

Example 1:

```
Input: s = "babab"
Output: 9
Explanation:
For s_1 == "b", the longest common prefix is "b" which has a score of 1.
For s_2 == "ab", there is no common prefix so the score is 0.
For s_3 == "bab", the longest common prefix is "bab" which has a score of 3.
For s_4 == "abab", there is no common prefix so the score is 0.
For s_5 == "babab", the longest common prefix is "babab" which has a score of 5.
The sum of the scores is 1 + 0 + 3 + 0 + 5 = 9, so we return 9.
```

Example 2:

```
Input: s = "azbazbzaz"
Output: 14
Explanation:
For s_2 == "az", the longest common prefix is "az" which has a score of 2.
For s_6 == "azbzaz", the longest common prefix is "azb" which has a score of 3.
For s_9 == "azbazbzaz", the longest common prefix is "azbz" which has a score of 9.
For all other s_i, the score is 0.
The sum of the scores is 2 + 3 + 9 = 14, so we return 14.
```

Constraints:

- 1 <= s.length <= 10^5
- s consists of lowercase English letters.

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ref=nb_npl)

palindrome