15/11/2017 HackerRank



String Similarity





For two strings A and B, we define the similarity of the strings to be the length of the longest prefix common to both strings. For example, the similarity of strings "abc" and "abd" is 2, while the similarity of strings "aaa" and "aaab" is 3.

Calculate the sum of similarities of a string S with each of it's suffixes.

Input Format

The first line contains the number of test cases T. Each of the next T lines contains a string each.

Constraints

1 <= T <= 10

The length of each string is at most 100000 and contains only lower case characters.

Output Format

Output T lines containing the answer for the corresponding test case.

Sample Input

2 ababaa aa

Sample Output

11 3

Explanation

For the first case, the suffixes of the string are "ababaa", "babaa", "babaa", "baa", "aa" and "a". The similarities of these strings with the string "ababaa" are 6,0,3,0,1, & 1 respectively. Thus, the answer is 6+0+3+0+1+1=11.

For the second case, the answer is 2 + 1 = 3.

f y in
Submissions:12555
Max Score:100
Difficulty: Expert
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Need Help?

Suffix Array

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Z Function LCP Array More Current Buffer (saved locally, editable) $\ \mathscr{V} \ \mathfrak{O}$ Java 7 Ö static long stringSimilarity(String a) { 10 11 12 return 0; 13 14 ▶ ↔ Line: 1 Col: 1 Run Code Submit Code **1** Upload Code as File Test against custom input

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