

Longest Prefix Suffix

Submissions: 16559 (/problem_submissions.php?pid=1285) Accuracy: 41.5% Difficulty: Medium
(<https://practice.geeksforgeeks.org/Medium/0/0/>) Marks: 4

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Problems

Given a string of character, find the length of longest proper prefix which is also a proper suffix.

Example:

S = abab

lps is 2 because, ab.. is prefix and ..ab is also a suffix.

Input:

First line is T number of test cases. $1 \leq T \leq 100$.

Each test case has one line denoting the string of length less than 100000.

Expected time complexity is $O(N)$.

Output:

Print length of longest proper prefix which is also a proper suffix.

Example:

Input:

2

abab

aaaa

Output:

2

3

**** For More Input/Output Examples Use 'Expected Output' option ****