Palindrome Index

Given a string of lowercase letters, determine the index of the character whose removal will make the string a palindrome. If the string is already a palindrome, then print **\$-1\$**. There will always be a valid solution.

Input Format

The first line contains \$T\$ (the number of test cases).

The \$T\$ subsequent lines of test cases each contain a single string to be checked.

Constraints

\$1 \le T \le 20\$

\$1 \le\$ length of string \$\le 100005\$

All characters are Latin lower case indexed.

Output Format

Print the *zero-indexed* position (integer) of a character whose deletion will result in a palindrome; if there is no such character (i.e.: the string is already a palindrome), print -1. Any correct answer will be accepted; e.g.: for a string such as $\frac{bcbc}{bc}$, we can either remove b at index 0 or c at index 0 or 0

Sample Input

3
aaab
baa
aaa

Sample Output

3 0 -1

Explanation

Test Case 1(\$aaab\$): Removing b at index \$3\$ results in a palindrome, so we print **3**.

Test Case 2(\$baa\$): Removing b at index \$0\$ results in a palindrome, so we print **0**.

Test Case 3(\$aaa\$): This string is already a palindrome, so we print -1; however, 0, 1, and 2 are also all acceptable answers, as the string will still be a palindrome if any one of the characters at those indices are removed.

Custom Checker logic

https://gist.github.com/shashank21j/58df3865a95bf960092c