F	Convert String to Palindrome	Time Limit: **1 sec**
	Setter: Rajon Bardhan	Memory Limit: **512 MB**

A palindrome is a word, number, phrase, or other sequence of characters which reads the same backward as forward, such as ‘‘madam’’ or ‘‘racecar’’ or the number, ‘‘10801’’. Sentence-length palindromes may be written when allowances are made for adjustments to capital letters, punctuation, and word dividers, such as ‘‘A man, a plan, a canal, Panama!’’, ‘‘Was it a car or a cat I saw?’’ or ‘‘No ‘x’ in Nixon’’. In this problem, you will be given a word which contains only lower case alphabets. You need to find out a way to make the word palindrome by deleting minimum number of characters from the string. Let, a word of length n is ‘‘A1 A2 A3……An-2 An-1 An’’. If you delete the ith character from the word then new word will be ‘‘A1 A2 A3….Ai-1 Ai+1….An-2 An-1 An’’. Here is an example. Let, a word is ‘‘abbea’’. Now, if you delete the 4th character ‘e’ from the word, you will get the word ‘‘abba’’, which is a palindrome.

Input:

The first line is an integer, **T (T <= 100)**, which is the number of test cases. This line is followed by T lines of T cases. Each case contains a word. The word contains only lower case alphabets with no special characters. The length of the word is less than **1001**.

Output:

For each case, print the number of case following by the required result.

Sample I/O:

Sample Input	Sample Output
2 abxa abdba	Case 1: 1 Case 2: 0

Note: Look, for 1st case, if x is deleted from the word, then we will get the palindrome ‘‘aba’’. For 2nd case, the word is already palindromic word, no character is required to delete.