

## H. Suffix Equal Prefix

Time limit: 0.25s

Memory limit: 1536 MB

There is a curious boy in noapara village , his name is “MODON”. He wrote a line of small letters only.

Now, he want to know how many proper suffix is also prefix of that line. Proper suffix is a suffix of a text whose length is less than the original text

Now you have to help “MODON”.

Input

Input starts with an integer **T** ( $\leq 50$ ), denoting the number of test cases.

Each case contains a string **S** where  $1 \leq \text{length}(S) \leq 10^6$ .

**Output**

For each case, print the case number and the answer .

**Example****Input :**

3  
ababab  
aaaa  
abcabc

**Output :**

Case 1: 2  
Case 2: 3  
Case 3: 1

Own Problem