

Drawing line

Description

Shiky is a lovely catbug that loves drawing lines. One day, Shiky decides to draw a colorful line with 26 different colors.

As an expert of drawing line, Shiky wants to draw this line in such a way he is able to find some patterns in it. It means that he should be able to find some numbers k_i such that $\forall 1 \leq i \leq n - k_i : color[i] = color[i + k_i]$. Note k_i should be less than n , or he will have infinite patterns.

It is an easy task, right? Unfortunately, Shiky had already drawn that line before any planing. Now, you musts find out how many patterns are there in the line, so Shiky can decide whether he should redraw it or not.

Input

The first line contains an integer T indicating the total number of test cases. Each of the following T lines contains a string S representing the line. A alphabet a means an unit long segment with first type of color, b means the second type, and so on.

- $1 \leq T \leq 15$
- The length of line will not exceed 10^6 units.

Output

For each test case, output the number of patterns in that line.

Sample Input

```
2
abca
tmtmtmt
```

Sample Output

```
1
3
```