

第三題

Description

A character string is said to have period  $k$  if it can be formed by concatenating one or more repetitions of another string of length  $k$ . For example, the string "abcabcabcabc" has period 3, since it is formed by 4 repetitions of the string "abc". It also has periods 6 (two repetitions of "abcabc") and 12 (one repetition of "abcabcabcabc").

Write a program to read a character string and determine its smallest period.

Input

The first line oif the input file will contain a single integer  $N$  indicating how many test case that your program will test followed by a blank line. Each test case will contain a single character string of up to 80 non-blank characters. Two consecutive input will separated by a blank line.

Output

An integer denoting the smallest period of the input string for each input. Two consecutive output are separated by a blank line.

Sample Input 1

```
1

HoHoHo
```

Sample Output 1

```
2
```

Language: 

C

⌵

↺

☁

Theme: 

Solarized Light

⌵

1

✔ You have solved the problem

✖ Contest has ended

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Information

ID	3
Time Limit	1000MS
Memory Limit	256MB
IO Mode	Standard IO
Created By	m1009880
Level	Low
Tags	Show

Statistic

