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.

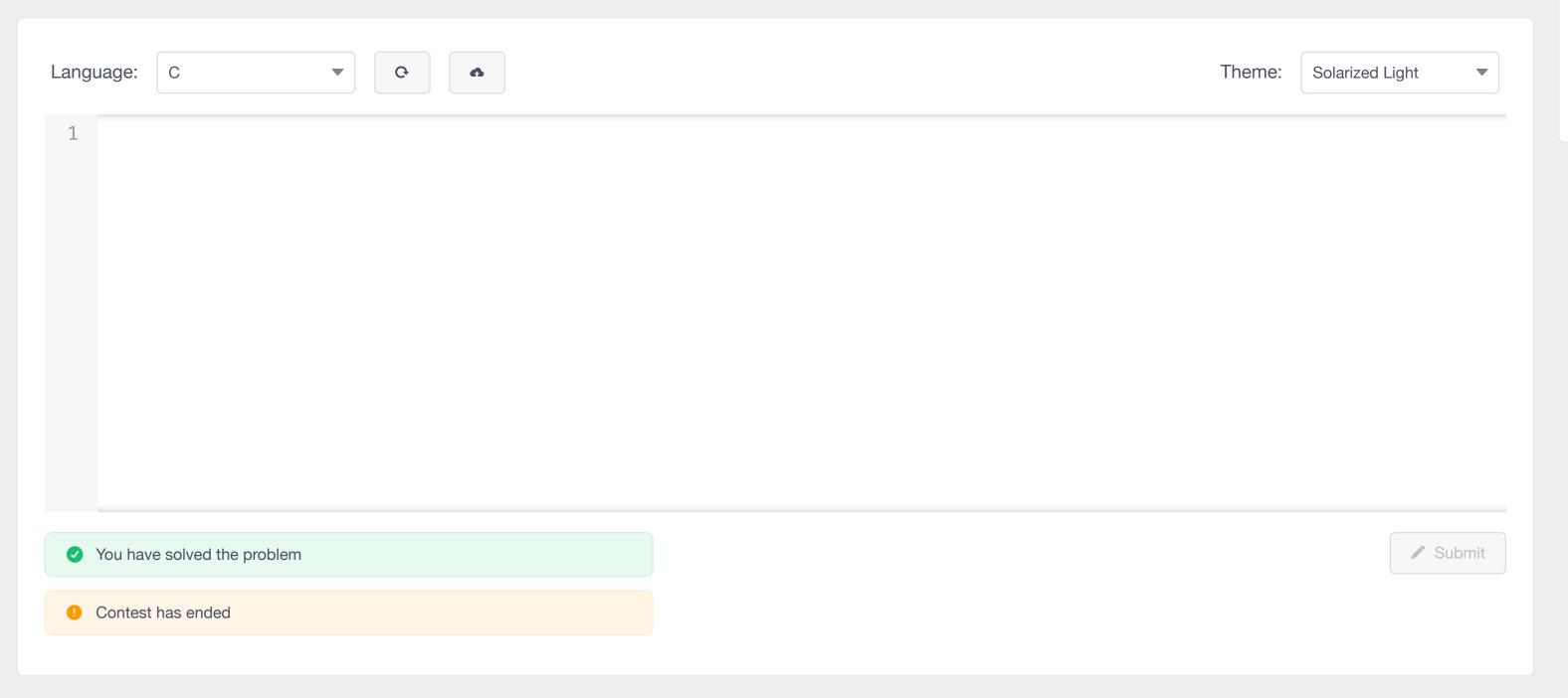
Input

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.

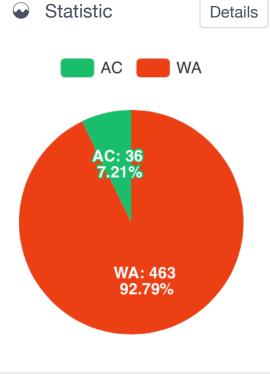
Output

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 Sample Output 1 1 2 HoHoHo



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



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