## Welcome To Code - Easy

Since I didn't get any chance to welcome you all to this NOVICE Contest for NSIT and IIITA, I got a chance here to welcome you all :). So here's the algorithmic way of welcoming you all. In a given string of characters, you need to count the number of times the string "welcome to code" occurs as a subsequence. Please note that a string is called a subsequence of another string if the first one can be obtained by deleting zero or more characters from the second string. For instance, "hlwrld" is subsequence of "hello world".

## Input

First line of Input contains an integer $\mathbf{t}<\mathbf{= 1 0 0}$ - the number of testcases. Following each line contains a string s of size >= 1 and <= 30 and containing 'a'-'z' and spaces only.

## Output

For each testcase, print the number of times 'welcome to code' occurs in the given string.

## Example

Input:
3
elcomew elcome to code
wweellccoommee to code qpsd
welcome to code
Output:
1
128
1

