

Problem H. Love Story

Time limit 1000 ms
Mem limit 262144 kB

Timur loves codeforces. That's why he has a string s having length 10 made containing only lowercase Latin letters. Timur wants to know how many indices string s **differs** from the string "codeforces".

For example string $s = \text{"co**o**lfor**s**e**z**"}$ differs from "codeforces" in 4 indices, shown in bold.

Help Timur by finding the number of indices where string s differs from "codeforces".

Note that you can't reorder the characters in the string s .

Input

The first line contains a single integer t ($1 \leq t \leq 1000$) — the number of test cases.

Each test case is one line and contains the string s , consisting of exactly 10 lowercase Latin characters.

Output

For each test case, output a single integer — the number of indices where string s differs.

Examples

Input	Output
5	4
coolforsez	5
cadafurcie	0
codeforces	4
paiuforces	9
forcescode	