A word is a string of lower-case letters. A cool word has at least 2 different letters and the number of occurrences of each different letter is different.

Here is a formal definition. Let $w$ be a word and $S$ be the set of letters in word $w$, then $w$ is cool if and only if all $f(c)$ (for each character $c$ in $S$ ) is all different. Here $f(c)$ means the number of occurrences of $c$ in $w$.

For example, the word "ada" is cool because $f(a)=2, f(d)=1$, and they're different. "banana" is also cool because $f(a)=3, f(n)=2, f(b)=1$. But the word "bbacccd" is not cool because $f(a)=f(d)=1$. Some other interesting cool words include: mammal, needed, papaya, referee, senselessness.

Read a list of words and count the number of cool words.

## Input

There will be at most 30 test cases. Each case begins with an integer $n(1 \leq n \leq 10000)$, the number of words to check. Each of the following $n$ lines contains a word containing at least one and at most 30 letters.

## Output

For each test case, print the case number and the number of cool words.

## Sample Input

2
ada
bbacccd
2
illness
a

## Sample Output

Case 1: 1
Case 2: 0

