Choice

Description

HH, the lucky programmer, is facing the final exam of ACM (Advanced Computer Magic). The final exam contains many multiple choice questions. Unlike some boring exam has only 4 choices from `A` to `D`, we have *26* choices from `A` to `Z` for each question in the final exam of ACM!

The strategy of HH is very simple. He will pick a lucky choice for the first question, then select the next choice for the second question, and so on. For example, if there are 5 questions in the exam, his answer may be `YZABC`.

As you know, HH is a lucky boy. He will always pick the optimal choice among his strategy. For example, if the correct answer is `BADEF`, HH will answer `BCDEF` instead of `ABCDE`. Now you are given the correct answer for each question, how many questions will HH answer correctly?

Input

The first line contains an integer T indicating the total number of test cases. Each test case contains one line with a string s denoting the correct answer of each question from first to last.

- $1 \leq T \leq 1000$
- $1 \leq |s| \leq 5 \times 10^6$
- s contains only uppercase letters.
- There are at most 10 test cases with $|s| > 1000$.

Output

For each test case, please output the number of questions will HH answer correctly in one line.

Sample Input

```
2
ZEBRA
THEQUICKBROWNFOXJUMPSOVERTHELAZYDOG
```

Sample Output

```
2
6
```

Hint

The size of input file is about 50MB.