

## 1506 - Exam Grader

### Description

Each year, each student applying to a university takes an admission test. One particular exam requires the student to answer a number of multiple choice questions. Each question provides 5 possible choices, labelled with letters A, B, C, D, and E. Only one of the choices is correct. Given the correct answers and the students' test sheets, you are asked to grade them as follows:

- For each correct answer, add 1 point to the score
- For each incorrect answer, deduct 0.25 points from the score
- For each question that the student did not answer, do not add nor subtract any point from the score

### Input specification

Input starts with a line containing an integer **N** ( $1 \leq N \leq 100$ ) indicating the number of questions in the test. The second line contains a string of **N** letters. Each letter is A, B, C, D, or E. This string represents the correct answers to each question in the test, ordered from the first question to the last. That is, the first letter of the string is the answer to the first question, the second letter is the answer to the second question, etc. The third line of the input contains an integer **M** ( $1 \leq M \leq 500$ ), the number of students taking this test. Each of the following **M** lines contain a string of **N** letters, from A, B, C, D, E, or #. The *i*th string is the answer provided by the *i*th student taking the test. For each string, the answers are ordered from the first question to the last. Letter # denotes a question that the student skipped.

### Output specification

Output **M** lines. The *i*th line of output is the score of the *i*th student. Format the score with exactly two digits after the decimal point.

### Sample input

```
10
CCACBEEBAB
```

3

CCACBEEBAB

#CACCEEBAB

C#ACBDEBC#

## Sample output

10.00

7.75

5.50

## Hint(s)

Source

Added by

**ejaltuna**

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Time limit (ms)

7000

**Test limit (ms)**

1000

Memory limit (kb)

65536

Output limit (mb)

64

Size limit (bytes)

100000

Enabled languages

C C# C++ Java Pascal Perl PHP  
Python Ruby Text