

Problem A. Intense Contest

Time limit 2000 ms

Mem limit 1048576 kB

Problem Statement

During ACM's Developer's Day Competitive Programming contest, Warun participated and worked tirelessly on several problems. The contest was so intense that he lost track of all his submissions, and by the end, he was completely exhausted and unable to count them himself.

Now, as his friend, it is your job to help him count his submissions.

There are N test cases in total. For each test case i ($1 \leq i \leq N$), you are given a string $S[i]$ that represents the verdict for that test case.

Your task is to determine the number of test cases that have each of the following verdicts:

AC, WA, TLE, and RE.

Refer to the Output section for the expected output format.

Constraints

- $1 \leq N \leq 10^5$
- S_i is AC, WA, TLE, or RE.

Input

Input is given from Standard Input in the following format:

```
N
S1
⋮
SN
```

Output

Let C_0 , C_1 , C_2 , and C_3 be the numbers of test cases for which the verdict is **AC**, **WA**, **TLE**, and **RE**, respectively. Print the following:

```
AC x  $C_0$ 
WA x  $C_1$ 
TLE x  $C_2$ 
RE x  $C_3$ 
```

Sample 1

Input	Output
6 AC TLE AC AC WA TLE	AC x 3 WA x 1 TLE x 2 RE x 0

Sample 2

Input	Output
10 AC AC AC AC AC AC AC AC AC AC	AC x 10 WA x 0 TLE x 0 RE x 0