Positive sequences X80922_en

A sequence of string pairs is called **positive** if the total number pairs where the first element is *"si"* is greater than the total number of pairs where the second element is *"si"*.
Similarly, the sequence is called **negative** if the total number of pairs where the first element is *"si"* is smaller than the total number of pairs where the second element is *"si"*.
If both total counts are equal, the sequence is called **neutral**.
Write a program which, given a list of sequences, says how many sequences are positive, negative and neutral.
Exam score: 2.500000 **Automatic part:** 0.000000%

Input

The input consists of a list of cases. Each case is composed by an integer number $n \geq 0$ followed by n string pairs. The list is ended with a case with $n = 0$.

Output

The output is a triplet of natural numbers stating how many sequences are positive, negative and neutral, respectively.

Sample input

```
4 si no si si  si no nada tres
3 si libro si si no si
2 si no no no
1 casa si
0
```

Sample output

```
2 1 1
```

Problem information

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