

## 2834 Choose Your Words Carefully

Let's face it, most students who do a good job on programming contest problems aren't the best writers. However, there is no artistic process that a good programmer can't improve with a little program to automate the process.

In this case, your writing problem is a tendency to use words too often. To help check for this, you are going to write a program that will search your papers for the word or words you use most often.

### Input

The input begins with a single positive integer on a line by itself indicating the number of the cases following, each of them as described below. This line is followed by a blank line, and there is also a blank line between two consecutive inputs.

The input consists entirely of your paper. Each line will be under 80 characters and will contain words, punctuation, and numbers. Words consist of the characters `{a..z,A..Z,0..9}`. Words are separated by whitespace, end-of-line, and punctuation. The punctuation that may be found includes the characters `{, . ; ' " ( ) / : - }`. No other characters will be found in the input.

Word comparisons are case-insensitive.

### Output

For each test case, the output must follow the description below. The outputs of two consecutive cases will be separated by a blank line.

Your output begins with the line:

```
< n > occurrences
```

where  $n$  is the number of times the most frequently appearing word occurs.

Following that line will be the words that occurred  $n$  times, one per line. The words may be listed in any order.

### Sample Input

```
1
```

```
Fourscore and seven years ago our fathers brought forth on this
continent a new nation, conceived in liberty and dedicated to the
proposition that all men are created equal. Now we are engaged in
a great civil war, testing whether that nation or any nation so
conceived and so dedicated can long endure.
```

### Sample Output

```
3 occurrences
nation
and
```