

Repeated Short Words

X96096_en

1. Write a function: `repeated_short(lw)` that given a list of words `lw`, returns a list with those words that are shorter than 5 letters and appear more than once in the list. The returned list must be alphabetically sorted.

```
def repeated_short(lw):  
    ""  
    >>> repeated_short(['easy','come','easy ','go ','will ','you ','let ','me','go'])  
    ['easy', 'go']  
    >>> repeated_short(['I','can ','see ','it ','can ','you','see ','it '])  
    ['can', 'it', 'see']  
    >>> repeated_short(['unbelievable','unbelievable'])  
    []  
    ""
```

2. Write a main program that reads lines from the input, and prints the number of repeated word shorter than 5 letters in each line, and the list of those words. The main program *must* use the `repeated_short(lw)` function defined above.

Input

The input is a series of lines, each containing one or more words.

Output

- The result returned by function `repeated_short(lw)` must be a sorted list with all repeated short words in the line.
- The output printed by the main program must be –for each line in the input– the number of short repeated words followed by the alphabetically sorted list of those words, in the format shown in the examples below.

Sample input 1

```
the quick brown fox jumps over the lazy dog  
easy come easy go will you let me go  
tea for two and two for tea  
the cat sat on his mat  
I can see it can you see it
```

Sample output 1

```
1 dog  
2 easy go  
3 for tea two  
0  
3 can it see
```

Sample input 2

```
uh repeat please repeat what you said  
hello  
bye bye and forever bye  
unbelievable unbelievable  
Oh mamma mia mamma mia mamma mia let me go  
everyone has some idea or has no idea
```

Sample output 2

```
0  
0  
1 bye  
0  
1 go  
2 has idea
```

Problem information

Author: ProAl professors

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