

Problem 3  
Sorting a log file

Difficulty: Level 1

You are given an array of logs. Each log is a space-delimited string of words, where the first word is the identifier.

There are two types of logs:

Letter-logs: All words (except the identifier) consist of lowercase English letters.

Digit-logs: All words (except the identifier) consist of digits.  
Reorder these logs so that:

The letter-logs come before all digit-logs.

The letter-logs are sorted lexicographically by their contents. If their contents are the same, then sort them lexicographically by their identifiers.

The digit-logs maintain their relative ordering.  
Return the final order of the logs.

Example

Input:

```
dig1 8 1 5 1
let1 art can
dig2 3 6
let2 own kit dig
let3 art zero
```

Output:

```
let1 art can
let3 art zero
let2 own kit dig
dig1 8 1 5 1
dig2 3 6
```