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**Sort and count duplicates****X31308\_en**

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Write a function `count_dup` that reads words, possibly including repeated ones, and writes them in sorted order, each together with its number of occurrences.

**Input**

A sequence of nonempty words along possibly several lines, separated by spaces or end of line characters. Each word consists of arbitrary letters.

**Output**

All the words appearing in the input, once each, in alphabetical order, and each followed by a colon, a space, and the number of times it appears in the input. See the example.

**Observation**

You program must contain exactly one data structure, namely, a BST to be implemented by you. It can use also strings freely and, of course, nonstructured types like ints and bools. Other than that, ALL data structures are forbidden: no lists, no dicts, no Counters, no defaultdicts, no nothing.

**Problem information**

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