



2. (10 points) **Code Tracing**

Determine the output of the following program. Write your answer, and nothing else, in the box below the code.

```
public class Quiz11CT {
    TreeMap<String, Integer> a = new TreeMap<String, Integer>();

    public Quiz11CT(String s) {
        String[] b = s.split(" ");
        for (String c : b) {
            if (!a.containsKey(c)) {
                a.put(c, 0);
            }
            int val = a.get(c);
            val += c.length();
            a.put(c, val);
            System.out.println(c + ";" + val);
        }
    }

    public void output() {
        Set<String> d = a.keySet();
        for (String e : d) {
            System.out.println(e + "->" + a.get(e));
        }
    }

    public static void main(String[] args) {
        Quiz11CT quiz11 = new Quiz11CT("bear cat lion tiger monkey lion cat bear lion");
        System.out.println("----");
        quiz11.output();
    }
}
```