

CSE 143 Collections Mystery Practice

1. Collections Mystery. Consider the following method:

```
public Map<String, String> mystery(List<String> list1, List<String> list2) {
    Map<String, String> result = new TreeMap<String, String>();
    for (int i = 0; i < list1.size(); i++) {
        result.put(list1.get(i), list2.get(i));
        result.put(list2.get(i), list1.get(i));
    }
    return result;
}
```

The three entries below have specific values for the first and second parameters to method `mystery` (when you see text like the letter `b`, that indicates that the list stores the String `"b"` in that position). For each entry, indicate what values would be stored in the map returned by method `mystery` if the given lists are passed as parameters. Map elements should be listed with "key=value" elements, as in `{b=z, d=e}`. You should list the map entries in their proper order.

list1: [b, l, u, e] list2: [s, p, o, t]

map returned: _____

list1: [k, e, e, p] list2: [s, a, f, e]

map returned: _____

list1: [s, o, b, e, r] list2: [b, o, o, k, s]

map returned: _____

2. Collections Mystery. Consider the following method:

```
public static Map<String, Integer> mystery1(List<String> list) {  
    Map<String, Integer> result = new TreeMap<String, Integer>();  
    for (int i = 0; i < list.size(); i++) {  
        result.put(list.get(i), i);  
    }  
    return result;  
}
```

The three entries below have specific values for the parameter to method `mystery`. For each entry, indicate what values would be stored in the `Map` returned by method `mystery` if the given maps are passed as parameters.

list: [four, score, and, seven, years, ago]

map returned: _____

list: [Fred, Wilma, Barney, Fred, Bart, Homer]

map returned: _____

list: [to, be, or, not, to, be, that, is, the, question]

map returned: _____