```
1 import java.io.IOException;
12
13 / * *
14 * Takes input file and outputs number of occurrences for each word into an HTML
15 * file.
16 *
17 * @author Gage Farmer
18 *
19 */
20 public final class WordCounter {
21
      /**
22
       * whitespace.
23
24
25
       * /
      private static String[] WHITESPACE = { "-", " ", ", ", ", ", ", ", ", ",",
26
27
               "$", "%" };
28
      /**
29
30
       * No argument constructor--private to prevent instantiation.
31
32
      private WordCounter() {
33
34
      /**
35
36
       * Scans through the input to get all words.
37
38
       * @param words
       * @param input
39
40
41
42
      private static void getWords(SimpleReader input, Queue<String> words) {
43
44
           /*
45
            * Scan through the file and return only space-less lines
46
47
          while (!input.atEOS()) {
48
               String temp = input.nextLine();
49
50
               if (!(temp.contains(" ") && temp.isEmpty())) {
51
                   String[] subList = temp.split(" ");
52
53
                   for (int idx = 0; idx < subList.length; idx++) {</pre>
54
                       String[] cleanedWords = cleanWord(subList[idx]);
55
                       for (String clean : cleanedWords) {
56
                           words.enqueue(clean);
57
                       }
58
59
                   }
60
               }
61
62
          }
63
      }
64
65
       * helper method for getWords, just cleans up the list by removing any
       * special characters, and splitting any combined words.
67
68
69
       * @param word
```

```
70
                     words
        * @return cleaned word
 71
 72
       private static String[] cleanWord(String word) {
 73
 74
 75
           // gee i sure hope there isn't an edge case where the array of 10 is too
  small!
 76
           Boolean t = true;
 77
           String[] result = null;
 78
           word = word.toLowerCase();
 79
 80
          for (String special : WHITESPACE) {
               if (word.contains(special) && t == true) {
 81
 82
                   result = word.split(special);
 83
 84
 85
           if (result == null) {
 86
               result = word.split("SUPERDUPERTOPSECRETPHRASE!!!!DON'TTYPEMEEE");
 87
 88
 89
          return result;
 90
      }
 91
 92
 93
        * Converts two queues to one sorted treemap
 94
 95
        * @param word
 96
       * @param num
 97
 98
     private static Map<String, Integer> queueToTreeMap(Queue<String> word) {
 99
100
          Map<String, Integer> tree = new Map1L<String, Integer>();
101
102
           while (word.length() > 0) {
103
               String temp = word.dequeue();
104
105
               if (!tree.hasKey(temp)) {
106
                   tree.add(temp, 1);
107
               } else {
108
                  tree.replaceValue(temp, tree.value(temp) + 1);
109
               }
110
111
           }
112
113
          return tree;
114
115
      }
116
       /**
117
       * Formats and prints the graph into html.
118
119
        * @param list
120
121
        * @param output
122
        * @throws IOException
        * /
123
124
       private static void printGraph(Map<String, Integer> list,
125
               SimpleWriter output) {
126
           /*
127
```

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