

```
1 import static org.junit.Assert.assertEquals;
13
14 public class GlossaryTest {
15     /*
16      * tests of generateElements
17      */
18     @Test
19     public void testGenerateElements1() {
20         String str = " . ! ";
21         Set<Character> charSet = new Set1L<>();
22         Glossary.generateElements(str, charSet);
23         Set<Character> charSetExpected = charSet.newInstance();
24         charSetExpected.add(' ');
25         charSetExpected.add('.');
26         charSetExpected.add('!');
27         assertEquals(" . ! ", str);
28         assertEquals(charSetExpected, charSet);
29     }
30
31     @Test
32     public void testGenerateElements2() {
33         String str = "heyo";
34         Set<Character> charSet = new Set1L<>();
35         Glossary.generateElements(str, charSet);
36         Set<Character> charSetExpected = charSet.newInstance();
37         charSetExpected.add('h');
38         charSetExpected.add('e');
39         charSetExpected.add('y');
40         charSetExpected.add('o');
41         assertEquals("heyo", str);
42         assertEquals(charSetExpected, charSet);
43     }
44
45     //test about border
46     @Test
47     public void testGenerateElements3() {
48         String str = "c";
49         Set<Character> charSet = new Set1L<>();
50         Glossary.generateElements(str, charSet);
51         Set<Character> charSetExpected = charSet.newInstance();
52         charSetExpected.add('c');
53         assertEquals("c", str);
54         assertEquals(charSetExpected, charSet);
55     }
56
57     /*
58      * tests of nextWordOrSeparator
59      */
60     @Test
61     public void testNextWordOrSeparator1() {
62         int position = 0;
63         String text = "u";
64         final String separStr = " \t ";
65         Set<Character> separators = new Set1L<>();
66         Glossary.generateElements(separStr, separators);
67         String res = Glossary.nextWordOrSeparator(text, position, separators);
68         assertEquals("u", res);
69     }
70
71     @Test
72     public void testNextWordOrSeparator2() {
73         int position = 0;
```

```
74     String text = "halo.hi";
75     final String separStr = " . ";
76     Set<Character> separators = new Set1L<>();
77     Glossary.generateElements(separStr, separators);
78     String res = Glossary.nextWordOrSeparator(text, position, separators);
79     assertEquals("halo", res);
80 }
81
82 @Test
83 public void testNextWordOrSeparator3() {
84     String text = "...";
85     int position = 0;
86     final String separStr = " . ";
87     Set<Character> separators = new Set1L<>();
88     Glossary.generateElements(separStr, separators);
89     String res = Glossary.nextWordOrSeparator(text, position, separators);
90     assertEquals(".", res);
91 }
92
93 @Test
94 public void testNextWordOrSeparator4() {
95     String text = "hello..";
96     int position = 5;
97     final String separStr = " . ";
98     Set<Character> separators = new Set1L<>();
99     Glossary.generateElements(separStr, separators);
100    String res = Glossary.nextWordOrSeparator(text, position, separators);
101    assertEquals(".", res);
102 }
103
104 /*
105  * tests of generateIn
106  */
107
108 @Test
109 public void testGenerateIn1() {
110     SimpleReader in = new SimpleReader1L("test1.txt");
111     Queue<String> title = new Queue1L<>();
112     Map<String, String> word = new Map1L<>();
113     title = Glossary.generateIn(word, in);
114     Queue<String> titleExpected = title.newInstance();
115     titleExpected.enqueue("meaning");
116     Map<String, String> wordExpected = new Map1L<>();
117     wordExpected.add("meaning",
118         "something that one wishes to convey, especially by language");
119
120     assertEquals(titleExpected, title);
121     assertEquals(wordExpected, word);
122 }
123
124 @Test
125 public void testGenerateIn2() {
126     SimpleReader in = new SimpleReader1L("test2.txt");
127     Queue<String> title = new Queue1L<>();
128     Map<String, String> word = new Map1L<>();
129     title = Glossary.generateIn(word, in);
130     Queue<String> titleExpected = title.newInstance();
131     titleExpected.enqueue("meaning");
132     titleExpected.enqueue("term");
133     Map<String, String> wordExpected = new Map1L<>();
134     wordExpected.add("meaning",
135         "something that one wishes to convey, especially by language");
```

```
136         wordExpected.add("term", "a word whose definition is in a glossary");
137
138         assertEquals(titleExpected, title);
139         assertEquals(wordExpected, word);
140     }
141
142     @Test
143     public void testGenerateIn3() {
144         SimpleReader in = new SimpleReader1L("test3.txt");
145         Queue<String> title = new Queue1L<>();
146         Map<String, String> word = new Map1L<>();
147         title = Glossary.generateIn(word, in);
148         Queue<String> titleExpected = title.newInstance();
149         titleExpected.enqueue("meaning");
150         titleExpected.enqueue("glossary");
151         Map<String, String> wordExpected = new Map1L<>();
152         wordExpected.add("meaning",
153             "something that one wishes to convey, especially by language");
154         wordExpected.add("glossary",
155             "a list of difficult or specialized terms, with their definitions, usually
near the end of a book");
156
157         assertEquals(titleExpected, title);
158         assertEquals(wordExpected, word);
159     }
160
161     @Test
162     public void changeTheTerms1() {
163         Map<String, String> word = new Map1L<>();
164         Queue<String> title = new Queue1L<>();
165         word.add("book", "a printed or written literary work");
166         title.enqueue("book");
167         Set<Character> strSet = new Set1L<>();
168         strSet.add(' ');
169         strSet.add(',');
170         strSet.add('.');
171         Glossary.changeTheTerms(word, title, strSet);
172         Map<String, String> wordExpected = new Map1L<>();
173         wordExpected.add("book", "a printed or written literary work");
174         assertEquals(wordExpected, word);
175     }
176
177 }
178
```