

```
1 import static org.junit.Assert.assertEquals;
2
3 import org.junit.Test;
4
5 import components.set.Set;
6 import components.set.Set1L;
7 import components.simplereader.SimpleReader;
8 import components.simplereader.SimpleReader1L;
9 import components.simplewriter.SimpleWriter;
10 import components.simplewriter.SimpleWriter1L;
11
12 public class StringReassemblyTest {
13
14     @Test
15     public void testOverlap_stream() {
16         String str1 = "broadcast";
17         String str2 = "casting";
18         int overlap = StringReassembly.overlap(str1, str2);
19         assertEquals(4, overlap);
20     }
21
22     @Test
23     public void testOverlap_prefixsuffix() {
24         String str1 = "prefixsuffix";
25         String str2 = "ixsuffixplus";
26         int overlap = StringReassembly.overlap(str1, str2);
27         assertEquals(8, overlap);
28     }
29
30     @Test
31     public void testOverlap_nointersect() {
32         String str1 = "nointersect";
33         String str2 = "completely";
34         int overlap = StringReassembly.overlap(str1, str2);
35         assertEquals(0, overlap);
36     }
37
38     @Test
39     public void testCombination_stream() {
40         String str1 = "stre";
41         String str2 = "ream";
42         int overlap = 2;
43         String combine = StringReassembly.combination(str1, str2, overlap);
44         assertEquals("stream", combine);
45     }
46
47     @Test
48     public void testCombination_prefixsuffix() {
49         String str1 = "overlap";
50         String str2 = "lapping";
51         int overlap = 3;
52         String combine = StringReassembly.combination(str1, str2, overlap);
53         assertEquals("overlapping", combine);
54     }
55
56     @Test
57     public void testAddToSetAvoidingSubstrings_1() {
```

```
58     Set<String> test = new Set1L<>();
59     test.add("abc");
60     test.add("def");
61     test.add("jkl");
62     String str = "jklmn";
63     Set<String> expected = new Set1L<>();
64     expected.add("abc");
65     expected.add("def");
66     expected.add("jklmn");
67     StringReassembly.addToSetAvoidingSubstrings(test, str);
68     assertEquals(expected, test);
69 }
70
71 @Test
72 public void testAddToSetAvoidingSubstrings_2() {
73     Set<String> test = new Set1L<>();
74     test.add("123");
75     test.add("456");
76     String str = "456789";
77     Set<String> expected = new Set1L<>();
78     expected.add("123");
79     expected.add("456789");
80     StringReassembly.addToSetAvoidingSubstrings(test, str);
81     assertEquals(expected, test);
82 }
83
84 @Test
85 public void testAssemble_1() {
86     Set<String> test = new Set1L<>();
87     test.add("part1 ");
88     test.add("1 part2");
89     test.add("part2 part3");
90     Set<String> expected = new Set1L<>();
91     expected.add("part1 part2 part3");
92     StringReassembly.assemble(test);
93     assertEquals(expected, test);
94 }
95
96 @Test
97 public void testAssemble_2() {
98     Set<String> test = new Set1L<>();
99     test.add("123");
100    test.add("234");
101    test.add("345");
102    test.add("456");
103    Set<String> expected = new Set1L<>();
104    expected.add("123456");
105    StringReassembly.assemble(test);
106    assertEquals(expected, test);
107 }
108
109 @Test
110 public void testPrintWithLineSeparators_1() {
111     SimpleWriter out = new SimpleWriter1L("test.txt");
112     SimpleReader in = new SimpleReader1L("test.txt");
113     String text = "ABC~DEF~GHI";
114     String expected = "ABC\nDEF\nGHI";
```

```
115     StringReassembly.printWithLineSeparators(text, out);
116     String test1 = in.nextLine();
117     String test2 = in.nextLine();
118     String test3 = in.nextLine();
119     in.close();
120     out.close();
121     assertEquals(expected, test1 + "\n" + test2 + "\n" + test3);
122 }
123
124 @Test
125 public void testPrintWithLineSeparators_2() {
126     SimpleWriter out = new SimpleWriter1L("test.txt");
127     SimpleReader in = new SimpleReader1L("test.txt");
128     String text = "123~456~789";
129     String expected = "123\n456\n789";
130     StringReassembly.printWithLineSeparators(text, out);
131     String test1 = in.nextLine();
132     String test2 = in.nextLine();
133     String test3 = in.nextLine();
134     in.close();
135     out.close();
136     assertEquals(expected, test1 + "\n" + test2 + "\n" + test3);
137 }
138
139 @Test
140 public void testLinesFromInput_1() {
141     SimpleReader in = new SimpleReader1L("xd.txt");
142     Set<String> test = new Set1L<>();
143     Set<String> expected = new Set1L<>();
144     expected.add("Bucks -- Beat");
145     expected.add("Go Bucks");
146     expected.add("o Bucks -- B");
147     expected.add("Beat Mich");
148     expected.add("Michigan~");
149     test = StringReassembly.LinesFromInput(in);
150     assertEquals(test, expected);
151 }
152 }
153
```