

```
1 import static org.junit.Assert assertEquals;
2
3
4
5
6
7
8 public class StringReassemblyTest {
9
10     /*
11      * private static Set<String> createFromArgs(String... args) { Set<String>
12      * set = new Set1L<String>(); for (String s : args) { set.add(s); } return
13      * set; }
14      */
15
16     @Test
17     // boundary, no overlap
18     public void overlap2() {
19         String str1 = "hello ";
20         String str2 = "world";
21         int over = StringReassembly.overlap(str1, str2);
22
23         assertEquals(0, over);
24     }
25
26     @Test
27     // boundary, one overlap
28     public void overlap3() {
29         String str1 = "hello w";
30         String str2 = "world";
31         int over = StringReassembly.overlap(str1, str2);
32
33         assertEquals(1, over);
34     }
35
36     @Test
37     // routine, large overlap
38     public void overlap4() {
39         /*
40          * Set up variables and call method under test
41          */
42         String str1 = "hello world";
43         String str2 = "world here I come";
44         int over = StringReassembly.overlap(str1, str2);
45         /*
46          * Assert that values of variables match expectations
47          */
48         assertEquals(5, over);
49     }
50
51     /**
52      * Routine test of combination.
53      */
54     @Test
55     public void testCombination1() {
56         String str1 = "HelloWorld";
57         String str2 = "World";
58         int overlap = 5;
59         String result = StringReassembly.combination(str1, str2, overlap);
60         assertEquals("HelloWorld", result);
61     }
62 }
```

```
63  /**
64   * Routine test of combination.
65   */
66  @Test
67  public void testCombination2() {
68      String str1 = "icantwaituntil";
69      String str2 = "untilgraduate";
70      int overlap = 5;
71      String result = StringReassembly.combination(str1, str2, overlap);
72      assertEquals("icantwaituntilgraduate", result);
73  }
74
75  /**
76   * border test of combination. both strings are the same
77   */
78  @Test
79  public void testCombination3() {
80      String str1 = "food";
81      String str2 = "food";
82      int overlap = 4;
83      String result = StringReassembly.combination(str1, str2, overlap);
84      assertEquals("food", result);
85  }
86
87  /**
88   * border test of combination. both strings are empty.
89   */
90  @Test
91  public void testCombination4() {
92      String str1 = "";
93      String str2 = "";
94      int overlap = 0;
95      String result = StringReassembly.combination(str1, str2, overlap);
96      assertEquals("", result);
97  }
98
99  /**
100   * Routine test of addToSetAvoidingSubstrings.
101   */
102  @Test
103  public void testaddToSetAvoidingSubstrings1() {
104      Set<String> set = new Set1L<>();
105      String check = "";
106
107      String str = "";
108      StringReassembly.addToSetAvoidingSubstrings(set, str);
109      check = set.removeAny();
110
111      assertEquals(str, check);
112  }
113
114  @Test
115  // boundary, should do nothing
116  public void addToSetAvoidingSubstrings1() {
117      Set<String> set = new Set1L<>();
118      String check = "";
119  }
```

```
120     String str = "";
121     StringReassembly.addToSetAvoidingSubstrings(set, str);
122     check = set.removeAny();
123
124     assertEquals(str, check);
125 }
126
127 @Test
128 // routine, should add to the set
129 public void addToSetAvoidingSubstrings2() {
130     Set<String> set = new Set1L<>();
131     String check = "";
132
133     String str = "hello world";
134     StringReassembly.addToSetAvoidingSubstrings(set, str);
135     check = set.removeAny();
136
137     assertEquals(str, check);
138 }
139 }
```