

StringReassemblyTest.java

```
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
8 public class StringReassemblyTest {
9
10     // routine
11     @Test
12     public void testcombination_apple_lead_2() {
13         String str1 = "apple";
14         String str2 = "lead";
15         int overlap = 2;
16         String combination = StringReassembly.combination(str1, str2, overlap);
17         assertEquals("applelead", combination);
18     }
19
20     // boundary
21     @Test
22     public void testcombination_empty_empty_0() {
23         String str1 = "";
24         String str2 = "";
25         int overlap = 0;
26         String combination = StringReassembly.combination(str1, str2, overlap);
27         assertEquals("", combination);
28     }
29
30     // challenging
31     @Test
32     public void testcombination_apple_apple_5() {
33         String str1 = "apple";
34         String str2 = "apple";
35         int overlap = 5;
36         String combination = StringReassembly.combination(str1, str2, overlap);
37         assertEquals("apple", combination);
38     }
39
40     // boundary
41     @Test
42     public void addToSetAvoidingSubstrings_empty_empty() {
43         String str = "";
44         Set<String> strSet = new Set1L<>();
45         Set<String> strSetTrue = strSet.newInstance();
46         strSetTrue.add("");
47         StringReassembly.addToSetAvoidingSubstrings(strSet, str);
48         assertEquals("", str);
49         assertEquals(strSetTrue, strSet);
50     }
51
52     // challenging
53     @Test
54     public void addToSetAvoidingSubstrings_apple_set_challenging1() {
55         String str = "apple";
56         Set<String> strSet = new Set1L<>();
57         strSet.add("tree");
```

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```
58     strSet.add("applesauce");
59
60     Set<String> strSetTrue = new Set1L<>();
61     strSetTrue.add("tree");
62     strSetTrue.add("applesauce");
63     StringReassembly.addToSetAvoidingSubstrings(strSet, str);
64     assertEquals("apple", str);
65     assertEquals(strSetTrue, strSet);
66 }
67
68 // challenging 2
69 @Test
70 public void addToSetAvoidingSubstrings_apple_set_challenging2() {
71     String str = "apple";
72     Set<String> strSet = new Set1L<>();
73     Set<String> strSetTrue = new Set1L<>();
74     strSet.add("tree");
75     strSet.add("app");
76     strSetTrue.add("tree");
77     strSetTrue.add("apple");
78     StringReassembly.addToSetAvoidingSubstrings(strSet, str);
79     assertEquals("apple", str);
80     assertEquals(strSetTrue, strSet);
81 }
82
83 // routine
84 @Test
85 public void addToSetAvoidingSubstrings_apple_set() {
86     String str = "apple";
87     Set<String> strSet = new Set1L<>();
88     strSet.add("tree");
89     strSet.add("cattle");
90     strSet.add("cherry");
91
92     Set<String> strSetTrue = new Set1L<>();
93     strSetTrue.add("tree");
94     strSetTrue.add("cattle");
95     strSetTrue.add("cherry");
96     strSetTrue.add("apple");
97     StringReassembly.addToSetAvoidingSubstrings(strSet, str);
98     assertEquals("apple", str);
99     assertEquals(strSetTrue, strSet);
100 }
101
102 }
103
```