```
1 import static org.junit.Assert.assertEquals;
 8 / * *
 9 * JUnit test fixture for {@code BinarySearchTreeMethods}'s static methods
10 * isInTree (and removeSmallest).
12 public final class BinarySearchTreeMethodsTest {
13
14
15
       * Constructs and return a BST created by inserting the given {@code args}
16
       * into an empty tree in the order in which they are provided.
17
      * @param args
18
19
                    the {@code String}s to be inserted in the tree
20
       * @return the BST with the given {@code String}s
21
       * @requires [the Strings in args are all distinct]
22
       * @ensures createBSTFromArgs = [the BST with the given Strings]
23
24
      private static BinaryTree<String> createBSTFromArgs(String... args) {
25
          BinaryTree<String> t = new BinaryTree1<String>();
26
          for (String s : args) {
27
              BinaryTreeUtility.insertInTree(t, s);
28
29
          return t;
30
      }
31
32
      @Test
33
      public void inTreeTest1() {
34
35
           * Set up variables
36
37
          BinaryTree<String> t1 = createBSTFromArgs("b", "a", "c");
38
          BinaryTree<String> t2 = createBSTFromArgs("b", "a", "c");
39
40
           * Call method under test
41
42
          boolean inTree = BinarySearchTreeMethods.isInTree(t1, "a");
43
44
           * Assert that values of variables match expectations
45
46
          assertEquals(true, inTree);
47
          assertEquals(t2, t1);
48
      }
49
50
      @Test
51
      public void inTreeTest2() {
52
53
           * Set up variables
54
          BinaryTree<String> t1 = createBSTFromArgs("b", "a", "c");
55
          BinaryTree<String> t2 = createBSTFromArgs("b", "a", "c");
56
57
58
           * Call method under test
59
60
          boolean inTree = BinarySearchTreeMethods.isInTree(t1, "b");
61
62
           * Assert that values of variables match expectations
63
64
          assertEquals(true, inTree);
```

122

123

@Test

public void inTreeTest6() {

```
124
           * Set up variables
125
126
          BinaryTree<String> t1 = createBSTFromArgs("b");
127
           BinaryTree<String> t2 = createBSTFromArgs("b");
129
           * Call method under test
130
           */
131
132
          boolean inTree = BinarySearchTreeMethods.isInTree(t1, "a");
133
           * Assert that values of variables match expectations ^{\star}/
134
135
136
          assertEquals(false, inTree);
137
          assertEquals(t2, t1);
138
      }
139
140
     // TODO: add here other test cases for BinarySearchTreeMethods.isInTree
141
      // (and for BinarySearchTreeMethods.removeSmallest)
142
143}
144
```