```
1 import static org. ju
 3 import org.junit.Test;
 5 import components.sequence.Sequence;
 6import components.sequence.Sequence1L;
 8 / * *
 9 * Sample JUnit test fixture for SequenceSmooth.
10 *
11 * @author Put your name here
12 *
13 */
14 public final class SequenceSmoothTest
15
16
17
        * Constructs and returns a sequence of the integers provided as arguments.
18
19
       * @param args 0 or more integer arguments
20
        * @return the sequence of the given arguments
21
       * @ensures createFromArgs= [the sequence of integers in args]
22
23
      private Sequence<Integer> createFromArgs(Integer... args)
          Sequence<Integer> s = new Sequence1L<Integer>();
2.4
25
          for (Integer x : args)
26
27
28
          return s;
29
30
31
      /**
32
       * Test smooth with s1 = \langle 2, 4, 6 \rangle and s2 = \langle -5, 12 \rangle.
33
       * /
34
      @Test
35
      public void test1()
          /*
36
           * Set up variables and call method under test
37
38
39
          Sequence<Integer> seq1 = this.createFromArgs(2, 4 6)
40
           Sequence<Integer> expectedSeq1 = this.createFromArgs(2, 4, 6)
41
           Sequence<Integer> seq2 = this.createFromArgs(5 12)
42
           Sequence<Integer> expectedSeq2 = this.createFromArgs(3 5)
43
          SequenceSmooth smooth (seq1, seq2);
44
45
           * Assert that values of variables match expectations
46
47
48
49
50
      /**
51
52
       * Test smooth with s1 = <7> and s2 = <13, 17, 11>.
53
54
      @Test
55
      public void test2()
56
57
           * Set up variables and call method under test
58
59
           Sequence<Integer> seq1 = this.createFromArgs(7)
```

```
Sequence<Integer> expectedSeq1 = this.createFromArgs(7)
 61
           Sequence<Integer> seq2 = this.createFromArgs(13 17 11)
 62
           Sequence<Integer> expectedSeq2 = this.createFromArgs();
 63
           SequenceSmooth smooth (seq1, seq2);
 64
            * Assert that values of variables match expectations
 65
 66
 67
 68
 69
 70
       /**
 71
 72
        * Test smooth with s1 = \langle 2, 6, 14, 18 \rangle and s2 = \langle 17, 11 \rangle.
 73
        * /
 74
       @Test
 75
       public void test3()
 76
 77
            * Set up variables and call method under test
 78
 79
           Sequence<Integer> seq1 = this createFromArgs (2, 6 14 18)
 80
           Sequence<Integer> expectedSeq1 = this.createFromArgs 2, 6 14 18
           Sequence<Integer> seq2 = this.createFromArgs(17 11)
 81
 82
           83
           SequenceSmooth.smooth(seq1, seq2);
 84
            * Assert that values of variables match expectations
 8.5
 86
 87
 88
 89
 90
       /**
 91
 92
        * Test smooth with s1 = \langle 4, 6, 8 \rangle and s2 = \langle 6, 9 \rangle.
 93
 94
       @Test
 95
       public void test4()
 96
            * Set up variables and call method under test
 97
 98
 99
           Sequence<Integer> seq1 = this.createFromArgs(4, 6, 8)
100
           Sequence<Integer> expectedSeq1 = this.createFromArgs(4 6 8)
101
           Sequence<Integer> seq2 = this.createFromArgs (6, 9)
102
           Sequence<Integer> expectedSeq2 = this.createFromArgs(5 7)
103
           SequenceSmooth smooth (seq1, seq2);
104
105
            * Assert that values of variables match expectations
106
107
108
109
110
       /**
111
112
        * Test smooth with s1 = \langle 8, 12 \rangle and s2 = \langle 4, 20 \rangle.
113
        * /
114
       @Test
115
       public void test5()
116
            * Set up variables and call method under test
117
118
```

```
119
           Sequence<Integer> seq1 = this.createFromArgs(8, 12)
120
           Sequence<Integer> expectedSeq1 = this.createFromArgs(8 12)
121
           Sequence<Integer> seq2 = this.createFromArgs(4 20)
122
           Sequence<Integer> expectedSeq2 = this.createFromArgs 10)
123
           SequenceSmooth.smooth(seq1, seq2);
124
            * Assert that values of variables match expectations
125
126
127
128
129
130
       /**
131
132
       * Test smooth with s1 = \langle 69 \rangle and s2 = \langle 100 \rangle.
       * /
133
134
       @Test
135
       public void test6()
136
           /*
            * Set up variables and call method under test
137
138
139
           Sequence<Integer> seq1 = this.createFromArgs(69)
           Sequence<Integer> expectedSeq1 = this.createFromArgs(69)
140
           Sequence<Integer> seq2 = this.createFromArgs (100)
141
142
           Sequence<Integer> expectedSeq2 = this.createFromArgs(69)
143
           SequenceSmooth.smooth(seq1, seq2);
144
           * Assert that values of variables match expectations
145
           * /
146
147
148
149
150
151
```