

```

1  package Assign_3;
2
3  import BasicIO.*;
4
5  public class TestSequence {
6
7      private ASCIIIDisplayer out;
8
9      public TestSequence ( ) {
10
11          boolean ans1;
12          int ans2;
13          char ans3;
14          CharSequence ans4;
15          String ans5;
16          CharacterSequence a, b, c, d, result; // strings for testing
17          char[] n = new char[] { 'u', 'i', 'o', 'p' };
18
19          out = new ASCIIIDisplayer();
20
21          a = new ConCharacterSequence();
22          b = new ConCharacterSequence('x');
23          c = new ConCharacterSequence("  x yz ");
24          d = new ConCharacterSequence(n);
25
26          ans1 = c.equals(d);
27          out.writeBoolean(ans1);
28          out.newLine();
29
30          ans2 = c.compareTo(d);
31          out.writeInt(ans2);
32          out.newLine();
33
34          result = b.toLowerCase();
35          out.writeString(result.toString());
36          out.newLine();
37
38          result = c.toUpperCase();
39          out.writeString(result.toString());
40          out.newLine();
41
42          result = c.trim();
43          out.writeString(result.toString());
44          out.newLine();
45
46          result = d.replace('i', 'u');
47          out.writeString(result.toString());
48          out.newLine();
49
50          result = b.concat("hello");
51          out.writeString(result.toString());
52          out.newLine();
53
54          ans3 = c.charAt(2);
55          out.writeChar(ans3);
56          out.newLine();
57
58          ans2 = c.length();
59          out.writeInt(ans2);
60          out.newLine();
61

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62         ans4 = c.subSequence(3,5);
63         out.writeString(ans4.toString());
64         out.newLine();
65
66         ans5 = d.toString();
67         out.writeString(ans5);
68         out.newLine();
69
70         try {
71             ans3 = c.charAt(20);
72             out.writeChar(ans3);
73         }
74         catch ( IndexOutOfBoundsException e ) {
75             out.writeString("Index is out of bounds.");
76         };
77         out.newLine();
78
79         out.close();
80
81     }; // constructor
82
83
84     public static void main ( String[] args ) { TestSequence t = new TestSequence(); };
85
86
87 } // TestSequence
88 //Xinan Wang No.5535802

```