

```

1 import BigNumbers.*;
2
3 /**
4  * This program is a test harness written to demonstrate the BigNumbers pac
5  * kage.
6  * @author Matt Laidman
7  * @version 1.0 (March 2014)
8  */
9
10 public class TestHarness {
11
12     public TestHarness() {
13         BNum m = new ConBNum("-6532265");
14         BNum n = new LinkBNum(54321);
15         BNum o = m.clone();
16         System.out.println("m: " + m.toString());
17         System.out.println("n: " + n.toString());
18         System.out.println("o: " + o.toString());
19         System.out.println();
20         System.out.println("sign of m: " + m.getSign());
21         System.out.println();
22         System.out.println("3rd digit of n: " + n.getDigit(3));
23         System.out.println();
24         System.out.println("m == n: " + m.equals(n));
25         System.out.println();
26         System.out.println("m == o: " + m.equals(o));
27         System.out.println();
28         System.out.println("m < n: " + m.lessThan(n));
29         System.out.println();
30         System.out.println("n < m: " + m.lessThan(o));
31         System.out.println();
32         System.out.println("m + n: " + m.add(n));
33         System.out.println();
34         System.out.println("m - n: " + m.sub(n));
35         System.out.println();
36         System.out.println("(m - n) + o: " + m.sub(n).add(o));
37         System.out.println();
38         m = new ConBNum("-777998843224");
39         n = new LinkBNum(-556432563343L);
40         System.out.println("m: " + m.toString());
41         System.out.println("n: " + n.toString());
42         System.out.println();
43         System.out.println("m < n: " + m.lessThan(n));
44         System.out.println();
45         System.out.println("m + n: " + m.add(n));
46         System.out.println();
47         System.out.println("3rd digit of m: " + m.getDigit(3));
48         System.out.println();
49         m = new ConBNum("777998843224");
50         n = new LinkBNum(556432563343L);
51         System.out.println("m: " + m.toString());
52         System.out.println("n: " + n.toString());
53         System.out.println();
54         System.out.println("m + n: " + n.sub(m));
55     }
56
57
58     public static void main(String[] args) {
59         new TestHarness();
60     }

```

61 }
62 }