```
// Lab 4: Zillion, but in Java
 2
   // First Java lab!
 3
   // Andrea Smith
 4
   // CSCI 1913
 5
   class Zillion {
 6
7
      private int[] array;
8
9
      public Zillion(int size) {
      array = new int[size];
10
      }
11
12
      public void increment() { // change all 9's to 0's, go up 1
13
14
        int i = (array.length) -1;
        while((i \ge 0) && (array[i] == 9)) {
15
          array[i] = 0;
16
          i -= 1;
17
18
        }
19
20
        if(i >= 0){
          array[i] += 1;
21
22
        }
23
      }
24
      public String toString(){ // convert to string by appending array
25
      elements to a string
•
26
        String myString = "";
27
28
        for (int i = 0; i < array.length; i++){
          myString += array[i];
29
30
        }
31
        return myString;
32
      }
33
34
35
        }
        class Driver
36
37
          public static void main(String[] args)
38
39
            Zillion z = new Zillion(2);
40
41
            System.out.println(z); // 00 2 points
42
            z.increment();
43
            System.out.println(z); // 01 2 points
44
45
            z.increment():
46
```

```
47
            System.out.println(z); // 02 2 points
48
49
            z.increment();
50
            z.increment();
            z.increment();
51
            z.increment();
52
            z.increment();
53
54
            z.increment();
            z.increment();
55
            z.increment();
56
57
58
            System.out.println(z); // 10 2 points
59
            z.increment();
            System.out.println(z); // 11 2 points
60
61
            z = new Zillion(4);
62
            System.out.println(z); // 0000 2 points
63
64
65
            for (int j = 1; j \le 999; j += 1)
66
            {
67
              z.increment();
68
            System.out.println(z); // 0999 2 points
69
70
            z.increment();
71
72
            System.out.println(z); // 1000 2 points
73
            for (int j = 1; j \le 999; j += 1)
74
75
            {
76
              z.increment();
77
78
            System.out.println(z); // 1999 2 points
79
80
            z.increment();
            System.out.println(z); // 2000 2 points
81
82
83
            for (int j = 1; j \le 7999; j += 1)
84
85
              z.increment();
86
87
            System.out.println(z); // 9999 2 points
88
            z.increment();
89
            System.out.println(z); // 0000 2 points
90
91
92
            z.increment():
            Cuctom out println(-): // 0001 1 point
C \cap
```