```
/**
     * Class NumberAnalysis test a number for five conditions and then prints the
 3
     * results of the tests.
 4
 5
      * @author (Yaw Abaaho)
 6
      * @version (3/3/2019)
 7
      * /
8
    public class NumberAnalysis
9
10
         public boolean isOdd(int n)
11
         {
12
             return ! (n%2==0);
13
         }
14
15
         public boolean isEven(int n)
16
         1
17
             if(isOdd(n))
18
             return false;
19
             else
20
             return true;
21
         }
22
23
         public int countSevens(int n)
24
25
             int hunds = n%10;
26
27
             int tens = (n/10) %10;
28
29
             int ones = (n/100)%10;
30
31
             int count = 0;
32
33
             if (hunds==7)
34
             \{count = count +1;\}
35
36
             if(tens==7)
37
             {count = count +1;}
38
39
             if(ones==7)
40
             {count = count +1;}
41
42
             return count;
43
         }
44
45
         public int countOdd(int n)
46
47
             int hunds = n%10;
48
49
             int tens = (n/10) %10;
50
51
             int ones = (n/100)%10;
52
53
             int count = 0;
54
55
             if (hunds%2!=0)
56
             {count = count +1;}
57
58
             if(tens%2!=0)
59
             {count = count +1;}
60
61
             if (ones%2!=0)
62
             {count = count +1;}
63
64
             return count;
65
         }
66
67
         public int countEven(int n)
68
         {
69
             int hunds = n%10;
```

```
70
71
             int tens = (n/10) %10;
72
73
              int ones = (n/100)%10;
74
75
              int count = 0;
76
77
              if (hunds%2==0)
78
              {count = count +1;}
79
80
              if(tens%2==0)
81
              {count = count +1;}
82
83
              if(ones%2==0)
84
              {count = count +1;}
85
86
              return count;
87
          }
88
89
         public void report(int n)
90
91
              System.out.println("It is " + isOdd(n) +
92
              " that this number is an odd number. "+
              "\nIt is " + isEven(n) +
93
              " that this number is an even number. "\boldsymbol{+}
94
95
              "\nThe number of seven digits in this number is " + countSevens(n)+"."+
96
              "\nThe number of odd digits in this number is "+ countOdd(n)+"."+
97
              "\nThe number of even digits in this number is "+ countEven(n)+".");
98
          }
99
      }
100
```