```
1 package ProgEx01;
 2 import java.util.Scanner;
3 /*
4 * The program will take a certain amount of input from the user and will output how many
 times each number between 0 and 50 inclusive were inputted
 5 * @author: Anthony Blaziak
6 * 4/8/22
7 */
 8 public class ProgEx01
9 {
      public static void main(String[] args)
10
11
12
          Scanner scan = new Scanner(System.in);
          System.out.println("Input how many numbers you are going to enter into the program.");
13
14
          int limit = scan.nextInt();
15
          int[] numbers = new int[limit];
16
          int[] counts = new int[51];
          int x = 0;
17
          for (int i = 0; i < limit; i++)</pre>
18
19
20
               System.out.println("Input a number that is within the range of 0 and 50
  inclusive");
21
               x = scan.nextInt();
22
               if (x >= 0 \&\& x <= 50)
23
                   numbers[i] = x;
24
               else
25
                   System.out.println("Number was not within the specified limits.");
26
          }
27
28
          for (int i = 0; i < 51; i++)
29
          {
30
               counts[i] = 0;
31
32
33
          for (int i = 0; i < limit; i++)</pre>
34
35
               counts[numbers[i]]++;
36
37
38
          for (int i = 0; i < 51; i++)
39
               System.out.println("The amount of times that " + i + " appeared in the program
40
         + counts[i]);
41
          }
42
      }
43 }
44 /*
45 Output:
46 Input how many numbers you are going to enter into the program.
47 5
48 Input a number that is within the range of 0 and 50 inclusive
50 Number was not within the specified limits.
51 Input a number that is within the range of 0 and 50 inclusive
53 Input a number that is within the range of 0 and 50 inclusive
540
```

```
55 Input a number that is within the range of 0 and 50 inclusive
 57 Input a number that is within the range of 0 and 50 inclusive
 59 The amount of times that 0 appeared in the program was: 2
 60 The amount of times that 1 appeared in the program was: 0
 61 The amount of times that 2 appeared in the program was: 0
 62 The amount of times that 3 appeared in the program was: 0
 63 The amount of times that 4 appeared in the program was: 0
 64 The amount of times that 5 appeared in the program was: 0
 65 The amount of times that 6 appeared in the program was: 0
 66 The amount of times that 7 appeared in the program was: 0
 67 The amount of times that 8 appeared in the program was: 0
 68 The amount of times that 9 appeared in the program was: 0
 69 The amount of times that 10 appeared in the program was: 0
 70 The amount of times that 11 appeared in the program was: 0
 71 The amount of times that 12 appeared in the program was: 0
 72 The amount of times that 13 appeared in the program was: 0
 73 The amount of times that 14 appeared in the program was: 0
 74 The amount of times that 15 appeared in the program was: 0
 75 The amount of times that 16 appeared in the program was: 0
 76 The amount of times that 17 appeared in the program was: 0
 77 The amount of times that 18 appeared in the program was: 0
 78 The amount of times that 19 appeared in the program was: 0
 79 The amount of times that 20 appeared in the program was: 0
 80 The amount of times that 21 appeared in the program was: 0
81 The amount of times that 22 appeared in the program was: 0
82 The amount of times that 23 appeared in the program was: 0
83 The amount of times that 24 appeared in the program was: 0
 84 The amount of times that 25 appeared in the program was: 0
85 The amount of times that 26 appeared in the program was: 0
 86 The amount of times that 27 appeared in the program was: 1
 87 The amount of times that 28 appeared in the program was: 0
 88 The amount of times that 29 appeared in the program was: 0
 89 The amount of times that 30 appeared in the program was: 0
90 The amount of times that 31 appeared in the program was: 0
 91 The amount of times that 32 appeared in the program was: 0
92 The amount of times that 33 appeared in the program was: 0
93 The amount of times that 34 appeared in the program was: 0
94 The amount of times that 35 appeared in the program was: 1
95 The amount of times that 36 appeared in the program was: 0
 96 The amount of times that 37 appeared in the program was: 0
97 The amount of times that 38 appeared in the program was: 0
98 The amount of times that 39 appeared in the program was: 0
99 The amount of times that 40 appeared in the program was: 0
100 The amount of times that 41 appeared in the program was: 0
101 The amount of times that 42 appeared in the program was: 0
102 The amount of times that 43 appeared in the program was: 0
103 The amount of times that 44 appeared in the program was: 0
104 The amount of times that 45 appeared in the program was: 0
105 The amount of times that 46 appeared in the program was: 0
106 The amount of times that 47 appeared in the program was: 0
107 The amount of times that 48 appeared in the program was: 0
108 The amount of times that 49 appeared in the program was: 0
109 The amount of times that 50 appeared in the program was: 1
110 */
111
```