

```
1 package ProgEx02;
2 import java.util.Scanner;
3 /*
4  * The program will take a user-specified amount of input from the user and will output how
   many times each number between -25 and 25 inclusive were inputted
5  * @author: Anthony Blaziak
6  * 4/12/22
7  */
8 public class ProgEx02
9 {
10     public static void main(String[] args)
11     {
12         Scanner scan = new Scanner(System.in);
13         System.out.println("Input how many numbers you are going to enter into the program.");
14         int limit = scan.nextInt();
15         int[] numbers = new int[limit];
16         int[] counts = new int[51];
17         int x = 0;
18         for (int i = 0; i < limit; i++)
19         {
20             System.out.println("Input a number that is within the range of -25 and 25
   inclusive");
21             x = scan.nextInt();
22             if (x >= -25 && x <= 25)
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++)
34         {
35             counts[numbers[i]+25]++;
36         }
37
38         for (int i = -25; i < 26; i++)
39         {
40             System.out.println("The amount of times that " + i + " appeared in the program
   was: " + counts[i+25]);
41         }
42     }
43 }
44 /*
45 Output:
46 Input how many numbers you are going to enter into the program.
47 3
48 Input a number that is within the range of -25 and 25 inclusive
49 -25
50 Input a number that is within the range of -25 and 25 inclusive
51 25
52 Input a number that is within the range of -25 and 25 inclusive
53 0
54 The amount of times that -25 appeared in the program was: 1
```

```
55 The amount of times that -24 appeared in the program was: 0
56 The amount of times that -23 appeared in the program was: 0
57 The amount of times that -22 appeared in the program was: 0
58 The amount of times that -21 appeared in the program was: 0
59 The amount of times that -20 appeared in the program was: 0
60 The amount of times that -19 appeared in the program was: 0
61 The amount of times that -18 appeared in the program was: 0
62 The amount of times that -17 appeared in the program was: 0
63 The amount of times that -16 appeared in the program was: 0
64 The amount of times that -15 appeared in the program was: 0
65 The amount of times that -14 appeared in the program was: 0
66 The amount of times that -13 appeared in the program was: 0
67 The amount of times that -12 appeared in the program was: 0
68 The amount of times that -11 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 -9 appeared in the program was: 0
71 The amount of times that -8 appeared in the program was: 0
72 The amount of times that -7 appeared in the program was: 0
73 The amount of times that -6 appeared in the program was: 0
74 The amount of times that -5 appeared in the program was: 0
75 The amount of times that -4 appeared in the program was: 0
76 The amount of times that -3 appeared in the program was: 0
77 The amount of times that -2 appeared in the program was: 0
78 The amount of times that -1 appeared in the program was: 0
79 The amount of times that 0 appeared in the program was: 1
80 The amount of times that 1 appeared in the program was: 0
81 The amount of times that 2 appeared in the program was: 0
82 The amount of times that 3 appeared in the program was: 0
83 The amount of times that 4 appeared in the program was: 0
84 The amount of times that 5 appeared in the program was: 0
85 The amount of times that 6 appeared in the program was: 0
86 The amount of times that 7 appeared in the program was: 0
87 The amount of times that 8 appeared in the program was: 0
88 The amount of times that 9 appeared in the program was: 0
89 The amount of times that 10 appeared in the program was: 0
90 The amount of times that 11 appeared in the program was: 0
91 The amount of times that 12 appeared in the program was: 0
92 The amount of times that 13 appeared in the program was: 0
93 The amount of times that 14 appeared in the program was: 0
94 The amount of times that 15 appeared in the program was: 0
95 The amount of times that 16 appeared in the program was: 0
96 The amount of times that 17 appeared in the program was: 0
97 The amount of times that 18 appeared in the program was: 0
98 The amount of times that 19 appeared in the program was: 0
99 The amount of times that 20 appeared in the program was: 0
100 The amount of times that 21 appeared in the program was: 0
101 The amount of times that 22 appeared in the program was: 0
102 The amount of times that 23 appeared in the program was: 0
103 The amount of times that 24 appeared in the program was: 0
104 The amount of times that 25 appeared in the program was: 1
105 */
```