```java
 1 package ProgEx04;
 2 import java.util.Scanner;
 3 /**
 4 4/12/22
 5 @author: Anthony Blaziak
 6 The program takes inputs between 1 and 100 and puts it into a chart
 7 */
 8 public class ProgEx04
 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[101];
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 1 and 100");
21             x = scan.nextInt();
22             if (x >= 1 && x <= 100)
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 < 10; i++)
29         {
30             counts[i] = 0;
31         }
32         for (int i = 0; i < limit; i++)
33         {
34             if (numbers[i] >= 1 && numbers[i] <= 10)
35                 counts[0]++;
36             else if (numbers[i] >= 11 && numbers[i] <= 20)
37                 counts[1]++;
38             else if (numbers[i] >= 21 && numbers[i] <= 30)
39                 counts[2]++;
40             else if (numbers[i] >= 31 && numbers[i] <= 40)
41                 counts[3]++;
42             else if (numbers[i] >= 41 && numbers[i] <= 50)
43                 counts[4]++;
44             else if (numbers[i] >= 51 && numbers[i] <= 60)
45                 counts[5]++;
46             else if (numbers[i] >= 61 && numbers[i] <= 70)
47                 counts[6]++;
48             else if (numbers[i] >= 71 && numbers[i] <= 80)
49                 counts[7]++;
50             else if (numbers[i] >= 81 && numbers[i] <= 90)
51                 counts[8]++;
52             else if (numbers[i] >= 91 && numbers[i] <= 100)
53                 counts[9]++;
54
55         }
56         System.out.println("---------------------");
57
```

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58              System.out.print("|1-10:   |   ");
59              for (int i = 0; i < counts[0]; i++)
60              {
61                  System.out.print("*");
62              }
63              System.out.print(" |");
64              System.out.println();
65              System.out.print("|11-20: | ");
66              for (int i = 0; i < counts[1]; i++)
67              {
68                  System.out.print(" *");
69              }
70              System.out.print(" |");
71              System.out.println();
72              System.out.print("|21-30: | ");
73              for (int i = 0; i < counts[2]; i++)
74              {
75                  System.out.print(" *");
76              }
77              System.out.print(" |");
78              System.out.println();
79              System.out.print("|31-40: | ");
80              for (int i = 0; i < counts[3]; i++)
81              {
82                  System.out.print(" *");
83              }
84              System.out.print(" |");
85              System.out.println();
86
87              System.out.print("|41-50: | ");
88              for (int i = 0; i < counts[4]; i++)
89              {
90                  System.out.print(" *");
91              }
92              System.out.print(" |");
93              System.out.println();
94              System.out.print("|51-60: | ");
95              for (int i = 0; i < counts[5]; i++)
96              {
97                  System.out.print(" *");
98              }
99              System.out.print(" |");
100             System.out.println();
101             System.out.print("|61-70: | ");
102             for (int i = 0; i < counts[6]; i++)
103             {
104                 System.out.print(" *");
105             }
106             System.out.print(" |");
107             System.out.println();
108             System.out.print("|71-80: | ");
109             for (int i = 0; i < counts[7]; i++)
110             {
111                 System.out.print(" *");
112             }
113             System.out.print(" |");
114             System.out.println();
```

```java
115                System.out.print("|81-90: | ");
116                for (int i = 0; i < counts[8]; i++)
117                {
118                    System.out.print(" *");
119                }
120                System.out.print(" |");
121                System.out.println();
122                System.out.print("|91-100:| ");
123                for (int i = 0; i < counts[9]; i++)
124                {
125                    System.out.print(" * ");
126                }
127                System.out.print("|");
128                System.out.println();
129
130            System.out.print("--------------------");
131
132        }
133 }
134 /*
135 Ouput:
136 Input how many numbers you are going to enter into the program.
137 10
138 Input a number that is within the range of 1 and 100
139 1
140 Input a number that is within the range of 1 and 100
141 11
142 Input a number that is within the range of 1 and 100
143 21
144 Input a number that is within the range of 1 and 100
145 31
146 Input a number that is within the range of 1 and 100
147 41
148 Input a number that is within the range of 1 and 100
149 51
150 Input a number that is within the range of 1 and 100
151 61
152 Input a number that is within the range of 1 and 100
153 71
154 Input a number that is within the range of 1 and 100
155 81
156 Input a number that is within the range of 1 and 100
157 91
158 --------------------
159 |1-10:   |  * |
160 |11-20:  |  * |
161 |21-30:  |  * |
162 |31-40:  |  * |
163 |41-50:  |  * |
164 |51-60:  |  * |
165 |61-70:  |  * |
166 |71-80:  |  * |
167 |81-90:  |  * |
168 |91-100:|  * |
169 --------------------
170 */
```