```
1  namespace Number_Array
2  {
3      //Programmer: Aaron Yoon
4      //Project: Number Array
5      //Date 5/1/23
6      public partial class Form1 : Form
7      {
8
9          int[] numberBank = new int[100];
10         System.Random r = new System.Random((int)
             System.DateTime.Now.Ticks);
11
12         public Form1()
13         {
14             InitializeComponent();
15
16             for(int i = 0; i < numberBank.Length; i++)
17             {
18                 numberBank[i] = r.Next(0, 101);
19             }
20         }
21
22         private void Form1_Load(object sender, EventArgs e)
23         {
24
25         }
26
27         private void btnAction_Click(object sender, EventArgs e)
28         {
29             int odds = 0;
30             int evens = 0;
31             int total = 0;
32             int bufferHigh = 0;
33             int bufferLow = 100;
34
35             for(int i = 0; i < numberBank.Length; i++)
36             {
37                 if (numberBank[i] > bufferHigh)
38                     bufferHigh = numberBank[i];
39
40                 if (numberBank[i] < bufferLow)
41                     bufferLow = numberBank[i];
42
43
44
45                 if (numberBank[i] % 2 == 0) //if number divided by 2 has no
                      remainder count it as an even number
46                     evens++;
47                 else //if the number divided by 2 has a remainder of not 0
```

```
                    then count it as an even number
48                      odds++;
49
50                  total += i;
51              }
52
53              MessageBox.Show(
54                  "Odds: " + odds.ToString() + "\n" +
55                  "Evens: " + evens.ToString() + "\n" +
56                  "Average: " + (total / numberBank.Length).ToString() + "\n" +
                        +
57                  "Lowest: " + bufferLow.ToString() + "\n" +
58                  "Highest: " + bufferHigh.ToString() + "\n"
59                  );
60          }
61
62          private void btnRandom_Click(object sender, EventArgs e)
63          {
64              for (int i = 0; i < numberBank.Length; i++)
65              {
66                  numberBank[i] = r.Next(0, 101);
67              }
68          }
69      }
70  }
```