

```

1 // Reads values into an array from a text file.
2 // Test file has one value per line
3
4 import java.util.Scanner;
5 import java.io.*;
6
7 public class CriticalFourFiveSix
8 {
9     public static void main (String[]args) throws IOException
10    {
11        // DECLARATIONS
12        Scanner myScannerFile = new Scanner(new File("myTextFile.txt"));
13        String line;
14        int counter = 0; // count the number of values in the text file
15        int num = 0, min = 100000, max = 0, sum = 0, average = 0, total = 0;
16        int[] myIntArr = new int[10]; // Array must be bigger than the file
17
18        // PROCESSING
19        while (myScannerFile.hasNext()) // Reads for as long as the file is not complete
20        {
21            line = myScannerFile.nextLine(); // hasline reads the whole line as a String
22            num = Integer.parseInt(line); // cast the String to int
23
24            // Determine minimum and maximum value in the array
25            if (num < min)
26                min = num;
27
28            if (num > max)
29                max = num;
30
31            total = total + num; // Keep a running total
32
33            myIntArr[counter] = num; // assigns the number into the next position in the array
34
35            counter = counter + 1;
36        }
37
38        average = total / counter; // Determine the average
39
40        // OUTPUT
41        for (int i = 0; i < counter; i++)
42            System.out.println("Number " + i + " is " + myIntArr[i]);
43
44        System.out.println();
45        System.out.println("The minimum value is " + min);
46        System.out.println("The maximum value is " + max);
47        System.out.println("The total value is " + total);
48        System.out.println("The average value is " + average);
49
50    } // end main
51 } // end class
52

```

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53 The output looks like this
54 =====
55 | Number 0 is 34
56 | Number 1 is 54
57 | Number 2 is 67
58 | Number 3 is 54
59 | Number 4 is 56
60 | Number 5 is 76
61 |
62 | The minimum value is 34
63 | The maximum value is 76
64 | The total value is 341
65 | The average value is 56
```