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1 // Reads values into an array from a text file.
2 // Text file has one value per line
3 // Order of the numbers in the array are reversed by using a second array
4
5 import java.util.Scanner;
6 import java.io.*;
7
8 public class CriticalSeven
9 {
10     public static void main (String[]args) throws IOException
11     {
12         // DECLARATIONS
13         Scanner myScannerFile = new Scanner(new File("myTextFile.txt"));
14         String line;
15         int num;
16         int size = 0; // count the number of values in the text file
17         int[] myIntArr = new int[10]; // Array must be bigger than the file
18         int[] myIntArr2 = new int[10]; // Second array to achieve the reversal
19
20         // PROCESSING
21         while (myScannerFile.hasNext()) // Reads for as long as the file is not complete
22         {
23             line = myScannerFile.nextLine(); // hasLine reads the whole line as a String
24             num = Integer.parseInt(line); // cast the String to int
25
26             myIntArr[size] = num; // assigns the number into the next position in the array
27
28             size = size + 1;
29         }
30
31         // Two counters are needed - i must decrease and counter must increase
32         int counter = 0;
33         for (int i = size - 1; i >= 0; i--)
34         {
35             myIntArr2[i] = myIntArr[counter]; // Copies one array into the other in reverse order
36             counter = counter + 1;
37         }
38
39         // OUTPUT
40         for (int i = 0; i < size; i++)
41             System.out.println("Number " + i + " is " + myIntArr[i]);
42
43         System.out.println();
44
45         for (int i = 0; i < size; i++)
46             System.out.println("Number " + i + " is " + myIntArr2[i]);
47
48     } // end main
49 } // end class
50
51
52

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53
54 Output looks like this
55 =====
56 | Number 0 is 34
57 | Number 1 is 54
58 | Number 2 is 67
59 | Number 3 is 54
60 | Number 4 is 56
61 | Number 5 is 76
62 |
63 | Number 0 is 76
64 | Number 1 is 56
65 | Number 2 is 54
66 | Number 3 is 67
67 | Number 4 is 54
68 | Number 5 is 34
```