COS126 StdIn Activity - Exercise 1.5.1

Write a program `MaxMin.java` that reads in integers (as many as the user enters) from standard input and prints out the maximum and minimum values.

```
 1   /**************************************************************************
 2   *  Compilation:  javac MaxMin.java
 3   *  Execution:    java MaxMin
 4   *         [input required from standard input        ]
 5   *         [ use ctl-d (OS/X) or ctl-z (Windows) for EOF ]
 6   *
 7   *  Dependencies: StdIn.java, StdOut.java
 8   *
 9   *  Read in integers from standard input
10   *  and print out the maximum and minimum values read in.
11   *
12   *  % java MaxMin
13   *  23 45 17 56 32
14   *  89 10 53 32 34
15   *  16
16   *  ctl-d
17   *  maximum = 89, minimum = 10
18   * (Ex. 1.5.1)
19   **************************************************************************/
20
21 public class MaxMin {
22    public static void main(String[] args) {
23
24       // first value read initializes min and max
25       int max =                    ;
26       int min =                    ;
27
28       // read in the data, keep track of min and max
29       while (                 ) {
30          int value = StdIn.readInt();
31
32
33       }
34
35       // output
36       StdOut.println("max = " + max + "    min = " + min);
37    }
38 }
```

Recommended Exercises: 1.5.3, 1.5.11, 1.5.13, 1.5.15

COS126 Parallel Array, StdIn Activity: 1.4, 1.5 (Booksite Web Ex.1.5.31)

```
 1 /***********************************************************************
 2  *  Compilation:  javac Students.java
 3  *  Execution:    java Students < students.txt
 4  *    data file http://www.cs.princeton.edu/introcs/15inout/students.txt
 5  *  Dependencies: StdIn.java StdOut.java
 6  *
 7  *  Reads in the integer N from standard input, then a list
 8  *  of N student records, where each record consists of four
 9  *  fields, separated by whitespace:
10  *       - first name
11  *       - last name
12  *       - email address
13  *       - which section they're in
14  *  Then, print a list of email address of students in sections 4 and 5.
15  *  (Booksite Web Exercise 1.5.31)
16  ***********************************************************************/
. . .
48 public class Students {
49     public static void main(String[] args) {
50
51         // read the number of students
52         int N = _____
53
54         // declare and initialize four parallel arrays
55         String[] first   = new String[N];
56         _____ last    = _____
57         String[] _____ = _____
58         int[] section    = _____
59
60         // read in the data from standard input
61         for (_____; _____;  _____) {
62             first[___]   = StdIn.readString();
63             last[___]    = _____
64             email[___]   = _____
65             section[___] = _____
66         }
67
68         // print email addresses of all students in section 4
69         StdOut.println("Section 4");
70         StdOut.println("---------");
71         for (int i = 0; i < N; i++) {
72             if (_____) {
73                 StdOut.println(_____);
74             }
75         }
. . .
87     }
88 }
```