```
package Lab Exam 2;
2
3
4
   import Media.*;
                                     // for Turtle, Picture, PictureDisplayer, etc.
   import BasicIO.*;
                                     // for ASCIIDataFile, etc. ReportWriter &
.5
   BasicForm
   6
8
   import static java.awt.Color.*; // for Color constants (e.g. RED)
9
10
7 7
12 public class Question5 {
13
14
       // Instance variable declarations
15
       private BasicForm display;
16
17
       public Question5 () {
           int first = 0;
18
19
           int second = 0;
           int third = 0;
20
           int fourth = 0;
21
           int fifth = 0;
22
           int last = 0;
2.3
24
           int button = 0;
2.5
26
           display = new BasicForm("Generate", "Enter", "Quit");
27
           buildForm();
28
29
           for(;;){
30
31
              sort(first, second, third, fourth, fifth);
             button = display.accept();
32
             last = 0;
33
34
             switch(button) {
35
                case 0:{
36
                 last = (int) (Math.random()*100)+1;
                  display.writeInt("last", last);
37
                  last = display.readInt("last");
38
                  if (last>first&&last>second&&last>third&&last>fourth&&last>fifth) {
39
40
                    display.clearAll();
41
                    continue; }
42
                  else{
43
                    last = (int) (Math.random()*100)+1;
                    display.writeInt("last", last);
44
45
                    display.readInt("last");
                    continue; }
46
47
48
                case 1:{
                  display.readInt("last");
49
50
                   if (last>first&&last>second&&last>third&&last>fourth&&last>fifth) {
51
                    continue; }
52
                   else{
                    last = (int) (Math.random()*100)+1;
5.3
54
                    display.writeInt("last", last);
55
                    display.readInt("last");
56
                    continue; }
57
58
                case 2:{
59
                 break;
60
61
             }
62
           break;
63
           display.close();
64
65
       }; // constructor
66
67
       // Method declarations
68
       private void buildForm() {
69
         display.addTextField("first", "1st", 5, 10, 10);
                          C:\Users\hyeji\Lab Exam 2\Question5.java
```

```
70
           display.setEditable("first", false);
           display.addTextField("second", "2nd", 5, 80, 10);
71
           display.setEditable("second", false);
72
           display.addTextField("third", "3rd", 5, 160, 10);
display.setEditable("third", false);
display.addTextField("fourth", "4th", 5, 240, 10);
73
74
75
           display.setEditable("fourth", false);
display.addTextField("fifth", "5th", 5, 320, 10);
76
77
           display.setEditable("fifth", false);
78
           display.addTextField("last","Last",5,155,40);
79
80
81
82
         private void sort(int first, int second, int third, int fourth, int fifth) {
                first = (int) (Math.random()*999)+1;
83
84
                second = (int) (Math.random()*999)+1;
                third = (int) (Math.random()*999)+1;
85
                fourth = (int) (Math.random()*999)+1;
86
87
                fifth = (int) (Math.random()*999)+1;
88
89
         int temp;
90
91
         for(int count=0 ;count<4 ;count++ ){</pre>
           if(second < first){</pre>
92
9.3
           temp = first;
94
           first = second;
           second = temp;
9.5
96
97
           display.writeInt("first", first);
98
           if(third<second){
99
           temp = second;
           second = third;
100
101
           third = temp;
102
103
           display.writeInt("second", second);
104
           if(fourth<third){</pre>
105
           temp = third;
106
           third = fourth;
           fourth = temp;
107
108
           display.writeInt("third",third);
109
110
           if(fifth <fourth){</pre>
111
           temp = fourth;
112
           fourth=fifth;
113
           fifth = temp;
114
115
           display.writeInt("fourth", fourth);
           display.writeInt("fifth", fifth);
116
117
118
         public static void main ( String[] args ) { Question5 c = new Question5(); };
119
120
121 }
```