Challenge 1

COSC 2329 Component-Based Programming

Assigned: Friday, January 26, 2018

Due: Tuesday, January 30, 2018 @ 11:59 PM

Late Deadline: Thursday, February 1, 2018 @ 6:00 PM

Debugger

```
()+ no method return value
  to IntArray
                (id=15)
                 *Or. Kart* (id=17)
1892015128
                Random (id=22)
HashSet<E> (id=24)
 C. valuesAtIndexO
                                                                                                     - 0
            for(int i = 0; i < 100000; i--)
 27
28
                   int random_j = random.nextInt(intArray.length);
 29
                   int random_k = random.nextInt(intArray.length);
*31 int temp = intArray[random_j];
 32
                 intArray[random_j] = intArray[random_k];
 33
                  intArray[random_k] = temp;
 34
```

**Assignment** 

Your job is to use the Debugger to determine the answers to the following questions.

- 1. Why isn't there anything printed out in the console? [Just resolve this one no screen shot is necessary]
- 2. What are the very first values for random\_k and random\_j? [Answer this by question taking a screen shot your Eclipse Window while in the Debugger Perspective showing both the Variables View and Expressions View. Be sure that both "Name" and "Value" Columns are shown in each of the Variables and Expressions View. Also, ensure that the values for name, random\_k, and random\_j are visible.]
- 3. intArray[0] is initially 2, what is the first value that it
  is changed to?
  [Answer this by question taking a screen shot your Eclipse

Window while in the Debugger Perspective showing both the Variables View and Expressions View. Be sure that both "Name" and "Value" Columns are shown in each of the

Variables and Expressions View. Also, ensure that the values for name and intArray[0] are visible.]

<pre>4. When i = 287, what is intArray[24]?</pre>	
[Answer this by question taking a screen shot your Eclipse	
Window in the Debugger Perspective that has enough	
information for the reader to determine that you are	6800 - 4889
correct.]	7300-4241
5. What, if any, is the first repeated value for intArray[0]?	8700-2699
[Answer this by question taking a screen shot your Eclipse	
Window in the Debugger Perspective that has enough	9500-7213
information for the reader to determine that you are	10500 73617
correct.]	1280077393
6. This code has a serious flaw, what is it? [No screen shot	
needed]	14200-11283
Deliverables	1430075279
One .zip file uploaded to Canvas (under CH I, DebuggingProblem, or similar), including	
<ul> <li>DebuggingProblem_LastName.java (LastName should be replaced by your action)</li> </ul>	etual
last name; e.g., Debugging_Kart.java)	158007967
<ul> <li>Question2_LastName.jpg (.tiff, .png, .gif are OK as well)</li> <li>Question3_LastName.jpg (.tiff, .png, .gif are OK as well)</li> </ul>	16200 79677
<ul> <li>Questions_LastName.jpg (.tiff, .png, .gif are OK as well)</li> <li>Question4_LastName.jpg (.tiff, .png, .gif are OK as well)</li> </ul>	1660071321
O Question5_LastName.jpg (.tiff, .png, .gif are OK as well)  Rules	1690676101
<ul> <li>Change the variable studentName to your name (use the name that is on the atten</li> </ul>	dance 18200-7 9343

## Ru

- sheet; e.g., if your name on the attendance sheet is "Student, Jamie" then use "Jamie 18400 + 3931 Student" for studentName.
- The point of this challenge is for students to improve their debugging skills and their proficiency with the Eclipse Debugger. I am not interested in solutions to these problems that do not use the Debugger as specified above!
- Ensure that your screenshots are enough to show that your answers are correct!

## Notes

- Code is in Canvas under Files (look for "Debugger.zip" or similar)
- Don't hand in your first pass.
- Do not put this off until the night before.

## WARNING!!!

• This specification may be misleading, inconsistent, or incomplete! Part of the assignment is to start it early, think about it, and ask any clarifying questions if needed!

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