ELEC 2543 Object-Oriented Programming and Data Structures

Exercise 4

Topics: Wrapper Classes

Due Date: Feb 16, 2017

Overview: You do not have to write any program in this exercise. You will be asked to get the output of some programs that contain wrapper objects and explain the output.

**PLEAE READ THE FOLLOWING BEFORE TRYING OUT THE PROGRAMS**

1. In Java, Integer objects created through autoboxing with values -128 to 127 are cached. That is, when an Integer object with value -128 to 127 is needed **through autoboxing**, the same Integer object is used in each autoboxing.
2. In Java, the comparison operator == checks whether the operands on both sides are the same. If the operands are object references, the comparison is true when the object references both point to the same object. The comparison is false if the object references are pointing to different objects, even the instance variables of the two objects carry the same value.

Download programs BoxingDemo.java and BoxingIncrementDemo.java. For each of them, run the program and produce the output. Explain the output of each case in less than 30 words.

Handin

Write your answers in a single word document file. Provide your explanation below each case as follows:

[output for Case I of BoxingDemo.java]

Explanation: [your explanation in less than 30 words]

[output for Case II of BoxingDemo.java]

Explanation: [your explanation in less than 30 words]

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[output for Case I of BoxingIncrementDemo.java]

Explanation: [your explanation in less than 30 words]

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You have to use appropriate indentation and spacing to enhance readability.