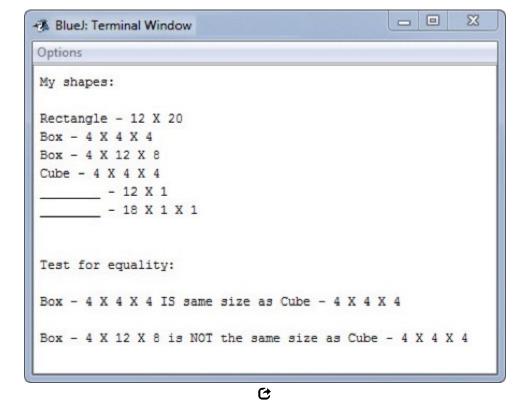
09.04 Assignment Instructions

Instructions: Modify the shape classes override the toString and equals methods.

- 1. Create a new project called 09.04 Assignment in the Module 09 Assignments folder.
- Copy your Rectangle and Box classes to the newly-created folder. Rename each class to version 4. Be sure to change the file name and the class statement.
- 3. Create a client class to test the shape implementation classes. Add an appropriate main method. As this project is completed, declare new instances of a shape class as needed. You may have more than one instance of any given class. For instance, you may decide to test with three boxes and two rectangles.
- 4. The tester class needs to include a showEffectBoth static method. Use the sample programs as a model. The method needs to demonstrate toString method work.
- 5. Create a new class named Cube4 that extends Box4. A cube is a box where the value for its length, width, and height are all the same. Use the existing classes as a model.
- 6. Define two more implementation classes for shapes of your choice. Choose shapes within the quadrilateral or rectangular prism families. Use the existing implementation classes as a model.
- 7. Each implementation class must override the Object class toString method by providing the name of the class followed by the shape's dimensions.
- 8. As needed, update the implementation classes to override the <code>Object</code> class <code>equals</code> method, so that it can be determined when shapes are equal based on the values of their dimensions. Some classes should inherit the <code>equals</code> method. For instance <code>Cube</code> will inherit the <code>equals</code> method of the <code>Box</code> class rather than override it.

Expected Output: The following image shows a sample of the output this project could display. The values and results will vary based on your program.

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