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CST 150 (Activity 10)

Below is the original program and the output: Text

Description automatically generated

* A set is a set of like elements that does not contains duplicates, but as you can see above set A contains duplicates.
* Also there supposed to be a union of the two sets that contains all elements of, but the only output for the union is only for set B.
* Last but not least there is still duplicates after the union operation for set A and set B combined.

Private bool addElement(int val) method: There are no errors with Boolean function, but it returns duplicates and should always return false and don’t add the duplicate int val to the set A or B. It should be noted that for this method to properly work, the next method needs to be corrected.

(the fix for this method will be covered in the private bool containsElement method)

A screenshot of a computer

Description automatically generated with medium confidence

Private bool containsElement method: This Boolean method is unable to loop through the entire set A and B, only the first index. Also the problem is the unwanted else statement to return false within the if loop.

Graphical user interface, text, application

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

Correction: We now do not have duplicate elements in each set after we comment line 38 and 39 with the method.

Text

Description automatically generated with low confidence

public Set union method: The problem with this method is there is not a union between set A or B. The only set that it displays is rhs which is set B. A screenshot of a computer

Description automatically generated with medium confidence

Text

Description automatically generated

Correction: In order to display the union between set A or B, I created another set within the method to hold for set A. Also I changed the return statement from return rhs to return combined.

Text

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