Q3

Assignment Content



Quiz_03.pdf



COSC 237 Quiz 03

Complete the below program and test it with the provided client.

```
public class Box<T ... > implements Comparable< ... > {
private int size;
 private T item;
 // TODO: Default and alternate constructors
 // TODO: Getters and setters
 // TODO: toString() and equals()  
 public int compareTo ( ... ) {
   --- returns ---
   1 if this.size is greater than obj's size and this.item is greater than obj's item
   0 if this.size equals obj's size and this.item equals obj's item
   -1 otherwise
 public static void main(String[] args) { // the testing client
   Box<Integer> intBox1 = new Box<Integer>();
   intBox1.setSize(50);
   intBox1.setItem(new Integer(237));
   System.out.println("intBox1--size == " + intBox1.getSize());
   System.out.println("intBox1--item == " + intBox1.getItem());
   intBox1.set(20, new Integer(200));
   Box<Integer> intBox2 = new Box<Integer>();
   intBox2.set(10, new Integer(100));
   System.out.println("intBox1.equals(intBox2) == " + intBox1.equals(intBox2));
   System.out.println("intBox1.compareTo(intBox2) == " + intBox1.compareTo(intBox2));
   Box<String> strBox1 = new Box<String>();
   strBox1.setSize(150);
   strBox1.setItem(new String("RAIN"));
   System.out.println("strBox1--size == " + intBox1.getSize());
   System.out.println("strBox1--item == " + intBox1.getItem());
   strBox1.set(5, new String("COSC236"));
   System.out.println(strBox1);
   Box<String> strBox2 = new Box<String>(150, new String("COSC236"));
   System.out.println("strBox1.equals(strBox2) == " + strBox1.equals(strBox2));
   strBox2.set(150, new String("COSC237"));
   System.out.println("strBox1.compareTo(strBox2) == " + strBox1.compareTo(strBox2));
```

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