Quiz 3 Code

COMP 302 Winter 2020

All the questions on the quiz pertain to the following Java code:

```
class Upper {
  private int i;
  private String name;
  public Upper(int i){
    name = "Upper";
    this.i = i;}
  public void set(Upper n){ i = n.show();}
  public int show(){return i;}
}
class Middle extends Upper {
  private int j;
  private String name;
  public Middle(int i){
    super(i+1);
    name = "Middle";
    this.j = i;}
  public void set(Upper n){ j = n.show();}
  public int show(){return j;}
class Lower extends Middle {
  private int i;
  private String name;
  public Lower(int i){
    super(i+1);
    name = "Lower";
    this.i = i;}
  public void set(Lower n){ i = n.show();}
  public int show(){return i;}
}
```

```
class Tester {
 public static void main(String[] args){
   Lower a = new Lower(1);
   Middle b = a;
   Upper c = new Middle(5);
   System.out.println(a.show());
   System.out.println(b.show());
   System.out.println(c.show());
   a.set(c);
   b.set(a);
    c.set(b);
   System.out.println(a.show());
   System.out.println(b.show());
   System.out.println(c.show());
 }
}
```