**2.*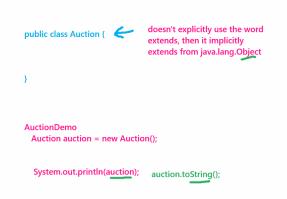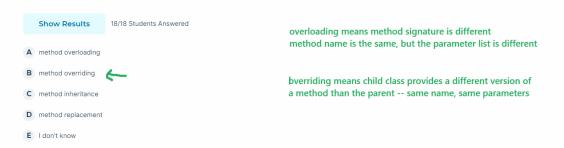* What class appears at the very top of the Java object hierarchy? In other words, what class is the superclass of all other classes in Java? Write the fully qualified name of the class.

Parent class	👁
idk	👁
Object?	👁
Object class	👁
superclass	👁
java.lang.Object	👁
java.lang.Object	👁
Object class	👁
Object class	👁
parent	👁

public class Auction {   ← doesn't explicitly use the word extends, then it implicitly extends from java.lang.Object

}

AuctionDemo
   Auction auction = new Auction();

   System.out.println(auction);   auction.toString();

---

3. When a subclass provides a different implementation for a method of a superclass, this is called:

A method overloading

B method overriding   ←

C method inheritance

D method replacement

E I don't know

overloading means method signature is different
method name is the same, but the parameter list is different

overriding means child class provides a different version of a method than the parent -- same name, same parameters

---

4.

What value is returned by calling the "getOpinion" method on an instance of Alpha?

```
// ###########################
// Alpha.java
// ###########################
public class Alpha {

   public String getOpinion() {
      return "Alpha is best!";
   }
}

// ###########################
// Bravo.java
// ###########################
public class Bravo extends Alpha {
   public String getOpinion() {
      return "Bravo is best!";
   }
}

// ###########################
```

public class Application{
   psvm(S[]a){
      Alpha alpha = new Alpha();

      alpha.getOpinion();
```

```java
    }
}

// ###########################
// Bravo.java
// ###########################
public class Bravo extends Alpha {
    public String getOpinion( ) {
        return "Bravo is best!";
    }
}

// ###########################
// Charlie.java
// ###########################
public class Charlie extends Bravo {

}

// ###########################
// Delta.java
// ###########################
```

Charlie charlie = new Charlie();

charlie.getOpinion();