* What is a default constructor?
  + A constructor with default or empty parameters
* What is a copy constructor?
  + An alternative constructor that takes an object of the same class as an argument
* Create a class and do not give it a constructor. Is it possible to create an instance of your class even if you did not define a constructor?
  + Yes. There is a default, empty constructor in every object inherited from the Object class
* Create a class and give it a copy constructor. Is it possible to create an instance of your class using the default constructor?
  + No. The copy constructor overrides the Object default when written.
* Is it possible to call one constructor from inside another constructor?
  + Yes. Calling the this statement achieves this if it is the first statement
  + public class Foo{

private String name;

public Foo(){

this(“Nameless”)

}

public Foo(String name ){

this.name = name;

}

}

* In the Lecturcize you learned about the has-a relationship line.  There are actually two different versions of this relationship: aggregation and composition.  One uses an unfilled diamond and the other uses a solid diamond.  What is the difference between these two relationships?
  + Solid diamond implies composition whereas an unfilled diamond implies aggregation. In composition relationships, the child is dependent on the parent and the parent is composed of the child. In aggregation relationships, the objects can exist independently.
* What does the term cardinality mean and how does it apply to a has-a relationship line?
  + Cardinality defines the number of members in a set. In a has-a relationship, this would define the number of children
* In the Lecturcize we created a Person class that had a String attribute that represents its name and a Dog attribute that represents the person's pet dog.  In the UML diagram we put the String attribute in the attributes box of the class, and we created a different class box for Dog with a has-a relationship line between Person and Dog.  Could we have listed the Dog in the attribute box instead?  Could we have moved the String attribute out of the attribute box and created a has-a relationship line between Person and String?
  + The Dog could be listed in the Person's attribute box and String could exist out of said box for a has-a relationship. This would depend on the programmer's intentions
* What is the difference between a primitive type in Java and an object type?
  + A primitive type is a basic data type that is predefined. An object type is created from a class and more complex i.e. have behaviors and attributes.
* Is it possible to define your own primitive types in Java?
  + No.
* Is it possible to define your own object types in Java?
  + Yes. Object types are the source of OOP
* Create a UML diagram that illustrates a Zoo that contains many Elephants, Lions, and Frogs.  Give the Zoo and the animals a few primitive types.  Finally, implement the UML diagram in Java.
  + Open vs. closed diamond???