(12 pts.) 1. Fill in the following blanks as necessary, assuming we want:
   • Dog to be a subclass of Animal
   • The default constructor of dog to call the Dog constructor with 1 argument
   • The Dog constructor with 1 argument to call the Dog constructor with 2 arguments
   • The Dog constructor with 2 arguments to initialize the dog with the given weight
     and color

   ```java
   public class Animal {  
     private int animalWeight;
     public Animal(int weight) { animalWeight = weight; } 
     ...
   }
   ```

   ```java
   public class Dog extends Animal { 
     private Color furColor;
     private static final Color DEFAULT_COLOR = Color.black;
     private static final int DEFAULT_WEIGHT = 52;
     public Dog() {  
       __this__(DEFAULT_COLOR);  
     }
     public Dog(Color color) {  
       __this__(color, DEFAULT_WEIGHT);  
     }
     public Dog(int weight, Color color) {  
       __super(animalWeight);  
       __furColor = color;  
     }
   }
   ```

(12 pts.) 2. Complete the following sentences:

A subclass inherits ____ methods and instance variables ____ from its superclass. A subclass can override ____ (non-private) methods ____ from its superclass.