## Examples

**WEEK 12** 

## What is the error???

```
class A {
      public A(int x) {-
                                                      Since you are invoking no-arg
                                                   constructors, you will need a no-arg
                                                       constructor of class A, too.
class B extends A {
      public B() {
public class Test {
       public static void main(String[] args) {
              B b = new B();
```

## What is the output???

```
public class Test {
  public static void main(String[] args) {
    A = new A(3);
class A extends B {
  public A(int t) {
    System.out.println("A's constructor is invoked");
class B {
  public B() {
    System.out.println("B's constructor is invoked");
         Output: (It first calls the implicitly defined constructor of B: super())
                          B's constructor is invoked
                          A's constructor is invoked
```

```
public class Test{
 public static void main(String[] args){
    B b = new B(3,2);
    System.out.println("Area=" + B.getArea());
                   Should be b.getArea()
                     since non-static
class Circle {
 private double radius;
 public Circle(double radius) {
   radius = radius;
                      this.radius = radius;
 public double getRadius() {
   return radius;
 public double getArea() {
   return radius * radius * Math.PI;
```

```
class B extends Circle {
 private double length;
 B(double radius, double length) {
   Circle(radius);
                                super(radius);
                           Because while calling the
   length = length;
                          superclass constructor you
   this.length = length;
                           can't use the class name
 @Override
 public double getArea() {
   return getArea() * length;
                     return super.getArea() * length;
                           Because overrided.
```

## Find 5 errors!