20. Inheritance :: Revised Rectangle Class Implementation

```
// CLASS: Rectangle (Rectangle.java)
/**
* Represents a Rectangle that can be drawn on a graphical window.
*/
public class Rectangle extends Shape {
  private int mHeight;
  private int mWidth;
  /**
   * Default ctor. Initializes all instance variables to 0 by calling the second
   * ctor.
   */
  public Rectangle() {
     this(0, 0, 0, 0);
  }
```

20. Inheritance :: Revised Rectangle Class Implementation (continued)

```
/**
 * Second ctor.
 */
public Rectangle(int pX, int pY, int pWidth, int pHeight) {
    super(pX, pY);
    setWidth(pWidth);
    setHeight(pHeight);
}
/**
 * Accessor method for the mHeight data member.
 */
public int getHeight() {
    return mHeight;
/**
 * Accessor method for the mWidth data member.
 */
public int getWidth() {
    return mWidth;
}
```

20. Inheritance :: Revised Rectangle Class Implementation (continued)

```
/**
 * Change the size of this Rectangle.
 */
public void resize(int pNewWidth, int pNewHeight) {
    setWidth(pNewWidth);
    setHeight(pNewHeight);
/**
 * Mutator method for the mHeight data member.
 */
public void setHeight(int pNewHeight) {
    mHeight = pNewHeight;
}
/**
 * Mutator method for the mWidth data member.
 */
public void setWidth(int pNewWidth) {
    mWidth = pNewWidth;
}
```