```
public class Rectangle extends GeometricObject {
private double width;
private double height;
public Rectangle() {
public Rectangle(double width, double height) {
    if (width > 0 && height > 0) {
        this.width = width;
        this.height = height;
    else{
        System.out.println("Error you must input number above zero");
        System.exit(1);
public Rectangle(String color, boolean filled, double width, double height) {
    super(color, filled);
    this.width = width;
    this.height = height;
public double getWidth() {
    return this.width;
public void setWidth(double width) {
    this.width = width;
public double getHeight() {
    return this.height;
public void setHeight(double height) {
    this.height = height;
@Override
public int compareTo(GeometricObject o) {
    if (getArea() > o.getArea())
    else if (getArea() < o.getArea())</pre>
```