```
package classes;
import java.util.Date;
public abstract class GeometricObject {
   protected GeometricObject() {
       this.date_created = new Date();
       this.color = "White";
       this.is_filled = false;
   protected GeometricObject(String color, boolean is_filled) {
       this.date_created = new Date();
       this.color = color;
       this.is_filled = is_filled;
   00verride
   public String toString() {
       return "Created on: " + this.date_created + "\n" +
           "\t- Color: " + this.color + "\n" +
           "\t- Filled: " + this.is_filled + "\n";
   public static void displayObject(Object object) {
       if (object instanceof Triangle triangle) {
           System.out.println("Side1: " + triangle.getSide1());
           System.out.println("Side2: " + triangle.getSide2());
           System.out.println("Side3: " + triangle.getSide3());
           System.out.println("Area: " + triangle.getArea());
           System.out.println("Perimeter: " + triangle.getPerimeter());
       } else if (object instanceof Rectangle rectangle) {
           System.out.println("Width: " + rectangle.getWidth());
System.out.println("Height: " + rectangle.getHeight());
           System.out.println("Area: " + rectangle.getArea());
           System.out.println("Perimeter: " + rectangle.getPerimeter());
       } else if (object instanceof Circle circle) {
           System.out.println("Diameter: " + circle.getDiameter());
           System.out.println("Area: " + circle.getArea());
           System.out.println("Perimeter: " + circle.getPerimeter());
           System.out.println("ERROR: invalid object");
   abstract public double getArea();
   abstract public double getPerimeter();
   protected String color;
   protected boolean is_filled;
   protected final Date date_created;
   public String getColor() {
       return color;
```

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```
public void setColor(String color) {
    this.color = color;
}

public boolean isFilled() {
    return is_filled;
}

public void setIsFilled(boolean is_filled) {
    this.is_filled = is_filled;
}

public Date getDateCreated() {
    return date_created;
}
```