

Problem 13.3

Geometric object
-color:String -filled:boolean -date:Created:java.util.Date
#GeometricObject() #GeometricObject(color:string, filled:boolean) +getColor():String +setColor(color:String):void +isFilled():boolean +setFilled(filled:boolean):void +getDateCreated():java.util.Date +toString():String +getArea():double +getPerimeter():double

Triangle
-side1:double -side2:double -side3:double
+Triangle +Triangle(side1: double, side2:double, side3:double) +getArea():void +getPerimeter():void +toString():String

Problem 13.5

java.lang.comparable
+compareTo (obj: Object): int

GeometricObject
-color:String -filled:boolean -date:Created:java.util.Date
#GeometricObject() #GeometricObject(color:string, filled:boolean) +getColor():String +setColor(color:String):void +isFilled():boolean +setFilled(filled:boolean):void +getDateCreated():java.util.Date +toString():String +getArea():double +getPerimeter():double +compareTo (obj: GeometricObject): int +max(obj1: GeometricObject, obj2: GeometricObject): GeometricObject

Circle
-radius: double
+Circle()

+Circle(radius: double) +Circle(radius: double, color: string, filled: boolean) +getRadius: double +setRadius(radius: double): void
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Rectangle

-width: double -height: double

+Rectangle() +Rectangle(width: double, height: double) +Rectangle(width: double, height:double, color:string, filled:boolean) +getWidth():double +setWidth(width: double): void +getHeight(): double +setHeight(height: double): void

Problem 13.7

Colorable

Attributes

Operations +howToColor()

GeometricObject

Attributes

Operations +GeometricObject()

Square

Attributes

Operations +Square()

Operations implemented from colorable +void howToColor()

Problem 13.9

GeometricObject
-color:String -filled:boolean -date:Created:java.util.Date
#GeometricObject() #GeometricObject(color:string, filled:boolean) +getColor():String +setColor(color:String):void +isFilled():boolean +setFilled(filled:boolean):void +getDateCreated():java.util.Date +toString():String +getArea():double +getPerimeter():double

Circle
-radius: double
+Circle() +Circle(radius: double) +Circle(radius: double, color: string, filled: boolean) +getRadius: double +setRadius(radius: double): void +getDiameter(): double

ComparableCircle

Problem 13.11

Class GeometricObject

<<interface>> Comparable

+CompareTo(obj:Object):int

<<interface>> Cloneable

+object clone() throws CloneNot supported Exception

Octagon class

Attributes

Operations +Octagon() +Octagon(double side) +void setSide(double side) +double getSide() +double getArea() +double getPerimeter()
