Geometric Object

-color:String
-filled:boolean
-dateCreated:Date

+GeometricObject()
+GeometricObject(color:String,
filled:boolean)
+getColor():String
+setColor(color:String)
+isFilled():boolean
+getDateCreated():Date
+toString():String
+getArea():double
+getPerimeter():double

Triangle

-side1:double
-side2:double
-side3:double

+Triange()
+Triangle(side1:double, side2:double,
side3:double)
+getSide1():double
+getSide2():double
+getSide3():double
+setSide1():double
+setSide2():double
+setSide3():double
+getArea():double
+getPerimeter():double
+toString():String

Geometric Object C

-color:String
-filled:boolean
-dateCreated:Date

+GeometricObject()
+GeometricObject(color:String,
filled:boolean)
+getColor():String
+setColor(color:String)
+isFilled():boolean
+getDateCreated():Date
+toString():String
+getArea():double
+getPerimeter():double
+compareTo(o:GeometricObjectC):int
+max(o1:GeometricObjectC,
o2:GeometricObjectC):GeometricObjectC

Colorable

+howToColor():String

Square

-side:double

+Square()
+Square(side:double)
+Square(side:double, color:String,
filled:boolean)
+setSide(side:double)
+getSide():double
+getArea():double
+getPerimeter():double
+howToColor():String
+toString():String

Circle

-radius:double

+Circle()
+Circle(radius:double)
+Circle(radius:double, color:String,
filled:boolean)
+getRadius():double
+setRadius(radius:double)
+getArea():double
+getDiameter():double
+getPerimeter():double
+equals(o:Object):boolean
+compareTo(o:Circle):int
+toString():String

Octagon

-side:double

+Octagon()
+Octagon(side:double)
+setSide(side:double)
+getSide():double
+getArea():double
+getPerimeter():double
+clone():Object
+toString():String