

Problem 13.1

Triangle
<ul style="list-style-type: none"> - side1: double - side2: double - side3: double
<ul style="list-style-type: none"> + Triangle(side1: double, side2: double, side3: double) + getSide1(): double + getSide2(): double + getSide3(): double + setSide1(side1: double) + setSide2(side2: double) + setSide3(side3: double) + getArea(): double + getPerimeter(): double + toString(): String
GeometricObject
<ul style="list-style-type: none"> - color: String - filled: boolean - dateCreated: Date - radius: double
<ul style="list-style-type: none"> + GeometricObject() + GeometricObject(color: String, filled: boolean) + getArea(): double + <u>Max(o1: GeometricObject, o2: GeometricObject)</u> + compareTo(o: GeometricObject): int + getColor(): String + setColor(color: String) + isFilled(): boolean + setFilled(filled: boolean) + getDateCreated(): Date + toString: String + equals(o: Object): boolean + compareTo(o: Circle): int

Problem 13.5

GeometricObject
<ul style="list-style-type: none"> - color: String - filled: boolean - dateCreated: Date - radius: double
<ul style="list-style-type: none"> + GeometricObject() + GeometricObject(color: String, filled: boolean) + getArea(): double

+ <u>Max(o1: GeometricObject, o2: GeometricObject)</u> + compareTo(o: GeometricObject): int + getColor(): String + setColor(color: String) + isFilled(): boolean + setFilled(filled: boolean) + getDateCreated(): Date + toString: String + equals(o: Object): boolean + compareTo(o: Circle): int

Problem 13.7

Square
+ shapes: GeometricObject4[] + side: double
- displayShapeInfo(shapes: GeometricObject4[]) - generateShapesArray(size: int) + Square(side: double) + getArea(): double

Colorable
+ howToColor()

GeometricObject4
+ getArea(): double

Circle2
- radius: double

+ Circle2(radius: double) + getArea(): double
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Problem 13.9

Circle
- radius: double
+ Circle() + Circle(radius: double) + getRadius(): double + setRadius(radius: double) + getArea(): double + getDiameter(): double + getPerimeter(): double + printCircle() + compareTo(o: Circle): int + equals(o: Object): boolean

GeometricObject2
- color: String - filled: boolean - dateCreated: Date
+ GeometricObject2() + GeometricObject2(color: String, filled: boolean) + getArea(): double + getPerimeter(): double + getColor(): String + setColor(color: String) + isFilled(): boolean + setFilled(filled: boolean) + getDateCreated(): Date + toString: String

Problem 3.11

GeometricObject3
- color: String - filled: boolean - dateCreated: Date

<ul style="list-style-type: none">+ GeometricObject3()+ GeometricObject3(color: String, filled: boolean)+ getArea(): double+ getPerimeter(): double+ getColor(): String+ setColor(color: String)+ isFilled(): boolean+ setFilled(filled: boolean)+ getDateCreated(): Date+ toString: String
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Octagon
- side: double
<ul style="list-style-type: none">+ Octagon()+ Octagon(side: double)+ getSide(): double+ setSide(radius: double)+ getArea(): double+ getPerimeter(): double+ printCircle()+ compareTo(o: Circle): int+ equals(o: Object): boolean+ clone(): Object