Shape (PREMADE)

- String shapeName

+ getShapeName()
+ toString()
+ computeArea()
+ computePerimeter() readShapeData()

Rectangle (PREMADE)

- double width
- double height

+ computeArea()
+ computePerimeter()
+ readShapeData()
+ toString()

Circle (PREMADE)

- double radius

+ computeArea()
+ computePerimeter()
+ readShapeData()
+ toString()

(partial)

- double ba
- double he

+ compute
+ compute
+ readSha
+ toString(

Square

- double width
- double height

+ computeArea()
+ computePerimeter()
+ readShapeData()
+ toString()

Square code changes

```
@Override
public double computeArea() {
    return height * width;
}

@Override
public double computePerimeter() {
    return 2 * (height + width);
}

//note: no changes made to rectangle code since a square can be
considered a rectangle for calculation purposes.
```
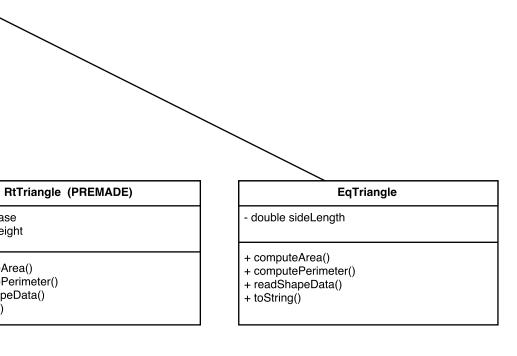
```
          RtTriangle  (PREMADE)                                    EqTriangle

ase                                              - double sideLength
eight

                                                 + computeArea()
Area()                                           + computePerimeter()
Perimeter()                                      + readShapeData()
peData()                                         + toString()
)
```

```
                        EqTriangle code changes

@Override
public double computeArea() {
    return (sqrt(3)/4) * (sideLength^2);
}

@Override
public double computePerimeter() {
    return 3 * sideLength;
}
```