**Java-WPILib: Entrance Test V2**

**Purpose**

This exam is meant to test your skills in Java and make sure you know all the material required to get started with learning the WPILib to program an FRC Robot. There are an infinite number of solutions to this problem but only those deemed acceptable will pass.

**Task**

Create a program that can store data according to the following description:

There are many types of Shapes, all of which have the ability to determine their own area and perimeter. Some of the types of Shapes are Rectangles, Squares, Circles, and Triangles. Additionally, Circles have the ability to determine their diameter, Triangles know what type of Triangle they are (Equilateral, Isosceles, Scalene), Rectangles and Squares can determine the length of their diagonal, and Squares can create a Circle that would be able to inscribe the instance of Square.

In the main method, all of the instances of Shapes should be stored in a single array.

**Assignment**

The link to the assignment on GitHub Classroom includes this worksheet. The link to the assignment is below:

Entrance Test Assignment Link: <https://classroom.github.com/a/GgILpR-T>