**Recursive Method Writing Practice**

**Directions:** Write the methods below recursively.

1) *public int summation(int num)*

Example) *summation(4)* returns the value of (4 + 3 + 2 + 1)

2) *public int factorial(int num)*

Example) *factorial(4)* returns the value of (4 \* 3 \* 2 \* 1)

3) *public void reverse(String input)*

 Example) *reverse(“Ryder”)* prints the value ”redyR”

4) *public void sequence(int input)*

Go to Course Website -> CS Club -> Week 1 Easy

 Example) sequence(10) – Prints: 10 5 16 8 4 2 1

5) *public String sequence(int input)*

 Same problem as #4 but returns a string rather than printing

6) Go to Course Website -> CS Club -> Week 2 Difficult -> #3

Hint) Create a Point class as well as a Triangle Class that aggregates the Point class (3 Points to be exact).