**Unit 10 lab/homework:**

**Homework:**

Read the chapter summary at <https://csawesome.runestone.academy/runestone/books/published/csawesome/Unit10-Recursion/summary.html>

Complete the base case practice and multiple choice questions in the textbook:

<https://csawesome.runestone.academy/runestone/books/published/csawesome/Unit10-Recursion/Exercises.html>

Complete Practice exam 1 at:

<https://csawesome.runestone.academy/runestone/books/published/csawesome/TimedTests/toctree.html>

**Lab:**

1. Create a recursion class in which you will create recursive methods.
2. Create a recursive method for calculating factorials.

[To recall what a factorial is click here](https://www.mathsisfun.com/numbers/factorial.html)

1. Create a recursive method for calculating Fibonacci numbers. (for example. If you call the method with the number 10, the 10th Fibonacci number needs to be the output)

[To recall what Fibonacci numbers are](https://www.mathsisfun.com/numbers/fibonacci-sequence.html)

1. Create a recursive method for selection sorting
2. Create a recursive method for insertion sorting
3. Create a recursive method for merge sorting