**Lab 4 – Starting Sorting**

*All work must be uploaded on Webcourses by 6pm on Thursday.*

1. Using the pseudo code of the two sorting algorithms *– Selection Sort and Bubble Sort*, shown in your lecture notes:
   1. Make at least one change to **each** algorithm to improve its efficiency.
   2. Using 1, 2, 4, 3, highlight exactly how it is more efficient.
2. What is the **Big O** of (outline how you got your answer):
   1. The iterative GCD algorithm (your solution from previous lectures).
   2. The tree-drawing algorithm (your solution from Lab 2).
   3. The Rock/Paper/Scissors algorithm (your solution from Lab 2).
3. Take Lab 4 Quiz in WebCourses.

**Finally ….**

Upload a WORD document (answering Q1, Q2) in Webcourses in the submission icon provided:

**\*\* All of this lab will go towards your final CA mark. Ensure this is your own work, as if there is evidence of copying you will receive 0.**