**GENERAL NOTES**

**THINGS TO STUDY**

**Sorting**

* Sorting algorithms + time complexities
* Sorting ASCII characters

**Binary Search Trees**

* Recursive traversal + different ways to implement
* **(int f\*)(int)** parameter
  + <http://www.cprogramming.com/tutorial/function-pointers.html>
  + For function ptrs, you can call the function with or without derefencing it
  + So (\*visit)(Item) is the same as visit(Item) once you have created the function ptr.

**Graphs**

* Find neighbours / connections via. an adjacency matrix
* Find neighbours / connections via. an adjacency list
* Djistrak’s Algorithm
* Connected Components  
  (Sub-graphs that are connected. Non-connected = sub-graphs with no path connecting to each other)

**EXAM STRATEGY**

* 3 hour total exam.
  + Suggested to spend 50% on Prac / 50% on Theory
* PART 1: Prac Exam
  + Spend 2 hours on prac
* PART 2: Theory Exam
  + Spend 1 hour on theory 🡪 then go back to prac to maximise marks for prac

**POSSIBLE PRAC EXAM QUESTIONS**

* Printing a list recursively / iteratively in REVERSE ORDER