**Data Structures and Algorithms: Quiz**

**MTH 9815: Software Engineering for Finance**

**Duration: 40 minutes**

**EXERCISE 1**

Write a quicksort algorithm to sort an array of integers

**EXERCISE 2**

Write a max-heap class (with a left and right child) – you just need to define the Add() method to add an element to the max-heap.

**EXERCISE 3 (BONUS)**

Modify the max-heap above to remove an element from the max-heap.