



COMP232/COMP242/COMP2321 (Fall 2017/2018)

Deadline: Friday 15 December 2017

4th Research Project

Sorting Algorithms

In this research project, you are required to search/study/report 5 new sorting algorithms.

Your final report should include the following:

- A cover page
- Write 1-1.5 page about each sorting algorithm:
 - Write the algorithm and discuss it.
 - Mention the algorithm properties: time complexity and space complexity and various situations, stability, and whether it's in place or not.
- A summary page comparing the 5 sorting algorithm based on the properties.
- A final page contains the used references reported in a scientific way. (see [this](#) for more information)

Discussion: at discussion time, we will randomly choose one sorting algorithm and discuss it with you. You have to demonstrate that you understand this method very well.

The following methods should not be in your list:

1. Insertion
2. Selection
3. Bubble
4. Shell
5. Merge
6. Heap
7. Quick
8. Radix

Good Luck!