# Assignment 5 – Ordered Linked Lists

Build a menu-driven application that

1. Allows you to input **strings** to an ordered **linked** list (let’s call it “OL1”). The words are NOT guaranteed to be entered in alphabetic order and always in CAPITALS.
2. Allows you to input strings to an ordered linked list (let’s call it “OL2”). The words are NOT guaranteed to be entered in alphabetic order and always in CAPITALS.
3. And then populates a third ordered linked list (let’s call it “OL3) with the strings from OL1 and OL2 amalgamated together in alphabetic order.
4. No duplicate words will appear.
5. Provide a function to delete a string from a specific list.

**EXAMPLE:**

**Enter the following to List 1 – dog, ball, frog, mother, apple, zebra.**

**Enter the following to List 2 – MOTHERHOOD, ANDROID, CANNON, DIG.**

**Resulting in List 3 being populated with ANDROID, apple, ball, CANNON, DIG, dog, frog, mother, MOTHERHOOD, zebra**

The user should be presented with the 3 queues after the merging is complete (i.e a Print Lists option).

In addition, the user should have an option to clear all lists, so that the application can be reused many times.

Finally, include an EXIT option.

Marks will be attributed to the use of classes and methods.

Please have the following available for collection during your practical session:

1. Deadline: Upload your solution to Moodle on or before January 17th 2017 at 5pm. Sign off during your practical on week beginning on January 16th 2017.
2. A verbal explanation of the program, if requested.
3. Your solutions will only be signed off in the practical class.

N.B.

1. Take the appropriate steps to backup your work at all times. Remember, PCs and Servers do fail and lose data.
2. Deadline exceptions can only be made in special circumstances (e.g. provide sick cert).

Des O' Carroll 2017