

# P5 Merge for Linked List

- Due May 30, 2018 by 12:20pm
- Points 100
- Available May 16, 2018 at 12am - Jun 15, 2018 at 11:59pm about 1 month

This assignment was locked Jun 15, 2018 at 11:59pm.

For this program you will be writing and testing a merge function. This function will be like the merge function that belongs to List in the STL, in that it will only work if you are working with list that are already sorted. If you were to use the function like this: `list1.merge( list2 ) ;` then all of the data from list2 would be moved into list1 in the correct places. After the merge is completed list2 should be an **empty** List that can be used again (in the main, I call the clear function for list2, but this should not be needed).

**Note: in the merge, you must move as many nodes as possible with each "move"...meaning you can't just call insert or manually move one node at a time unless one node is all that needs to be moved with that move.**

[Here are the files](#) that includes main and a simple linked list class (only part of it is finished) that you can use to learn and write your merge function. (Note: if you have problems with the link, the program files can be found on Canvas in the Course Resources section of Files). The only part of the code that you need to write is the merge function. You will also need to un-comment all the various test in main as you are ready to use them with your member function.

**Project Hint 1:** Compile and run the given file after you download them and add/copy them a Visual Studio project to make sure it will work before you start to change things.

I would really encourage you to use the debugger to examine data during run time and follow the execution of your code.

**For turn** in you need to turn in the code for the merge function and the output from main when you have all 8 test uncommented. Put a normal program header before the print out of your merge function.