

Assignment 1

DLL Music Library

We're using a doubly-linked list to represent a music library management system. You could do this without a doubly-linked list, but you need to do it with one for this assignment.

You have the option of implementing the music library as a DLL, or implementing the DLL separately and using it in the music library implementation – either's fine.

He suggests using a sorting algorithm you already know, such as bubble sort, for sorting the music library, as complexity will not be important.

Details

It's due Thursday 27th of October at 6pm.

It's submitted through the command line like with CS1117 last year.

- `submit-ADS1 [filename]` – Note that this has been changed from what we were initially told.

All work submitted must be your own work.

Recommendations

Dr. Brown recommends you draw pictures as you go, rather than just working with code. It helps to give you a mental model of what all the references mean.

Specifically for the `swap_adjacent` method, he recommends assigning the four nodes (the two nodes passed in, the node before them, and the node after them) to variables `x`, `y`, `z`, and `w` when you start out. This leads to longer code but makes it more likely that you'll get it working. Once you have it working you can remove these extra assignments.