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Lab 8

The purpose of this program is to utilize the C++ Standard Template Library to recreate the Grammy Winner List from Labs 5 and 6. The general structure of the program is the same. The main function is basically the same, and the same functions created for lab 5 were used. The way each of the created functions operate is the only difference between the two labs. Instead of creating and manipulating pointers to create a doubly linked list, the “list” STL was utilized. This list is doubly linked and is already set up with functions to add, remove, etc.

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Description automatically generated]() Working off the code from lab 5, the functions for adding, removing, searching, printing, and deleting for the Grammy List were changed to work with the list STL. This made it significantly easier to create and maintain the list. This program still allows the user to add winners, remove winners, print winners, search by name, and delete the list and exit. The only difference for the user between lab 5 and lab 8 is that lab 8 allows the list to have duplicate entries. This removes the need to have a “numWins” counter and a “year” array. So, instead of an artist like Adele appearing only once, she appears twice with each of her wins respectively. Other than that, the user experience between each lab is identical.