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CS-300

Linked Lists

The purpose of this code is to process a CSV file containing a history of bids. It specifically searches for and manage information regarding the bid ID, title, fund, and amount. The way it processes this information is through the use of a “linked list” data structure. This information is then accessed and modified independently of the original CSV file meaning any changes made while using the program isn’t reflected in the file.

 The challenges that I encountered were mostly due to my lack of experience using C++ and other low-level languages specifically how to properly manage and access memory. I overcame this by separating myself from the provided code and creating a new C++ file to understand the syntax of pointers. This was extremely effective in increasing my understanding since I was able to see how pointers work and how they work with nodes. I was able to figure out, through a more hands on way, what nodes access and output when called. An error I was stuck on was “segmentation fault”. This occurred within the “Remove()” function. I placed print statements at the start and end of each loop and conditional statement outputting where the program got to before the error occurred. It showed that the error happened when the while loop got to the end of the of list and the element it was looking for wasn’t there. I figured out that the line,

should’ve been,

A diagram of a process

Description automatically generated