4-2 Assignment: Hash Tables

CS300

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11/18/2023

The purpose of this code is to load and read a cvs file. These files contain bid information that can then be displayed and adjusted. Bids can be added or removed, or just a simple search can be done. We started with 179 buckets to start our hash table. The hash table is used to store values and a key is used to map those values to an index. The key is used to find a value in the hash table. For this purpose, the bid information is the value, and the bid ID is our key. We initialized the node structure by resizing the table size. This code also implements logic to free storage space when a class is destroyed. We implemented logic to insert a bid and used logic to calculate a hash value. The ability to print all the bids is also implemented. As well as removing bids from the hash table.

I did use a portion of code from a previous week to help code the beginning of the code for holding bids. This did seem to save some time. I used the head and tail code. I still had issues with zipping the file when I was done so I had to export just the cpp files. I used the prompts provided in the program to help guide me through the assignment and used comments throughout. This is a huge help for me as a beginner. I also used the textbook for guidance.

Flowchart

A diagram of a flowchart

Description automatically generated