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Assignment 3: Indexer

Readme

We used a hashtable to sort and print the indexed file. We implemented the hashtable in multiple parts, using a linked list we rewrote for the project, as well as a Record object, which is placed in a linked list, which is then placed in a hash table. The hash table is implemented as an array of size 36 of linked lists. The hash function for the table converts the ascii value of the first letter of the token into a 0-36 value (26 letters and 10 digits), and sorts accordingly. We recursively sort through directories and perform the required operations directory by directory, making sure to clear the buffer on every new file.