Programmer: Joshua Sell

Course: COSC 311, F'24

Project: 5

Due Date: 12/2/2024

**Project Description:**

Uses the student class to transfer text file contents into a Random Access File. Then, put the Random Access File into a Hash Table of Binary Search trees

**Method and class descriptions:**

Student class: Pre-provided. This class creates student objects from the text file to be inserted into the Random Access File.

Main class: The remainder of the code for this assignment is present here. All functions for the Random Access File live here.

Menu Display: The loop that enables the selection and calling of all integral functions that interact with the RAF.

createRAF: Uses the student class to create the RAF.

displayRAF: Contains the ability to either display the next five or the rest.

displayRemainingEntries: Displays remaining entries in RAF

displayNextFive: displays next five in RAF.

fetchRAF: Finds the RAF if not yet declared.

Createhashing: creates the hash table

Display hash table: displays the hash table

Retrieve hash table entry: retrieves a specific entry from the hash table and compares it to the raf, fetching it

Modifyhashtableentry: Retrieves and modifies

Addhashtablerecord: Adds a record to the end of the raf and inserts it into the hash table

Deletehashtablerecord: deletes a record from the hash table and the raf