Reese Ganaway, Aaron Aviles, Andrew Li

Group Editor Cover Page

In this project, we created a program, titled group editor, that reads a file from the user and allows them to edit it to an extent. In this iteration, the user can only delete the first character in the first line of the text. The user can press the ‘x’ key to erase the character. They can also press the ‘d’ key twice to delete a full line. To save the file, the user presses the ‘:’ key, followed by the ‘w’ key. To quit the program, the user presses the ‘:’ key followed by the ‘q’ key. If the user tries to quit the program after making changes to the file, but they did not save their changes, they will be given a message saying they did not save and asking whether they want to save or quit. If the user wants to quit without making changes immediately, they can enter “:q!”. In the most recent iteration (3rd iteration), we implemented an undo function and the ability to use the program from the command line. It also highlights words that are considered “keywords”, which are determined from a file given to us. Each keyword from the given “keywords” file is placed in the binary search tree. The code reads through the file given from the user and checks the binary search tree for each word. If the word is in the tree, it gets highlighted. The ‘u’ key is used to revert the last change the user made. It does so by saving the last change made by users in a stack. We also needed to make a new class to make the undo possible. When a user gives a command, an object of the new class, which is called “Command”, is created and placed in the stack.

Coder – Reese Ganaway

Convener, Submitter – Aaron Aviles

Tester – Andrew Li