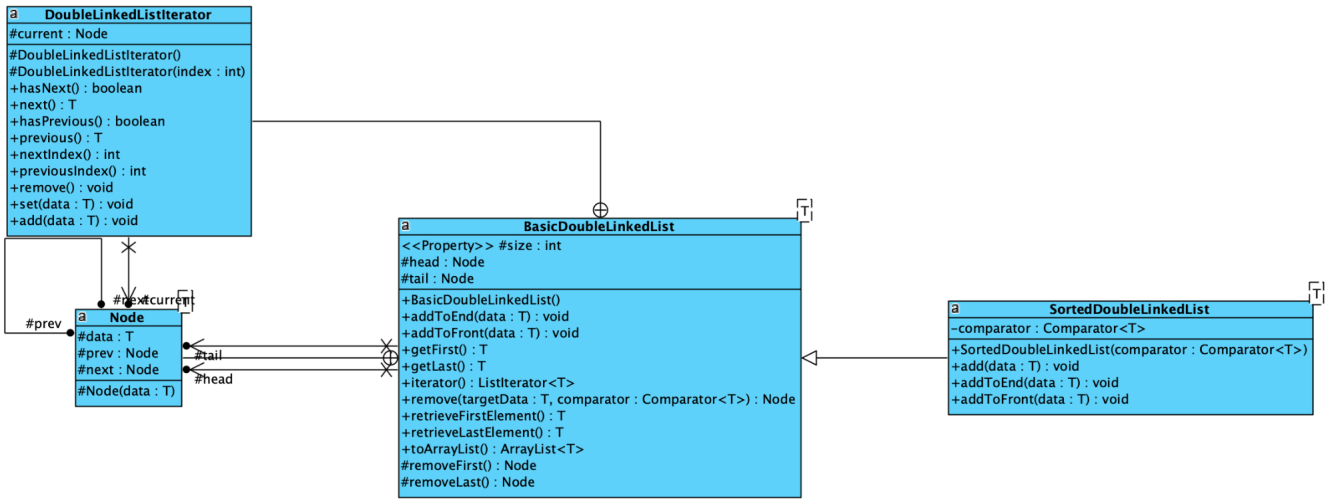
CMSC204 Assignment 1

Class: CMSC204
Program: Assignment #3
Instructor: Professor Kuijt
Summary of Description:
Assignment is to write a generic double-linked list class with an iterator, and a generic sorted double-linked list class with an iterator that inherits from your generic double-linked list class. GUI for assignment was provided to help visualize linked list.

Due Date: March 5, 2023

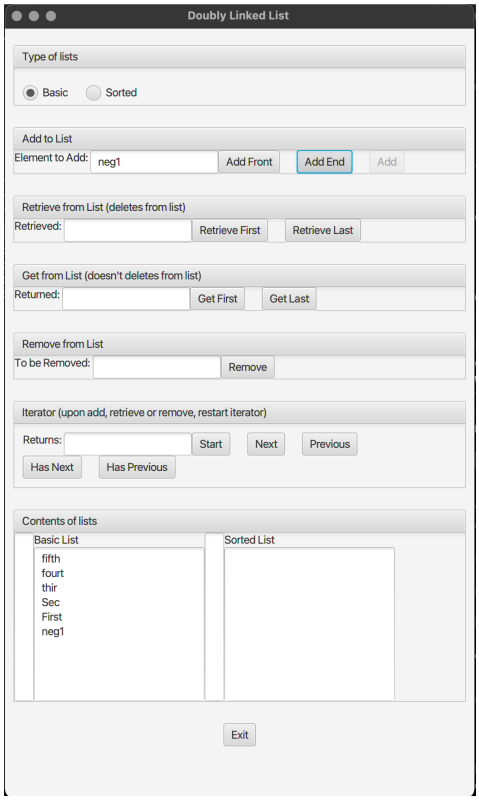
Integrity Pledge: I pledge that I have completed the programming assignment independently.
I have not copied the code from a student or any source.

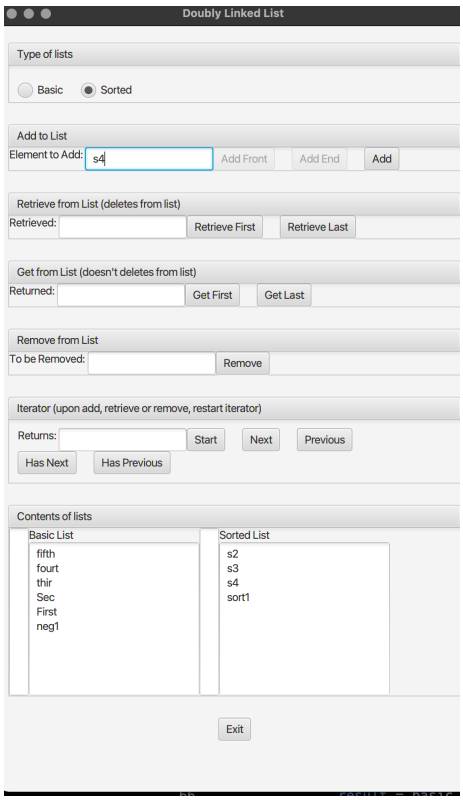
UML:

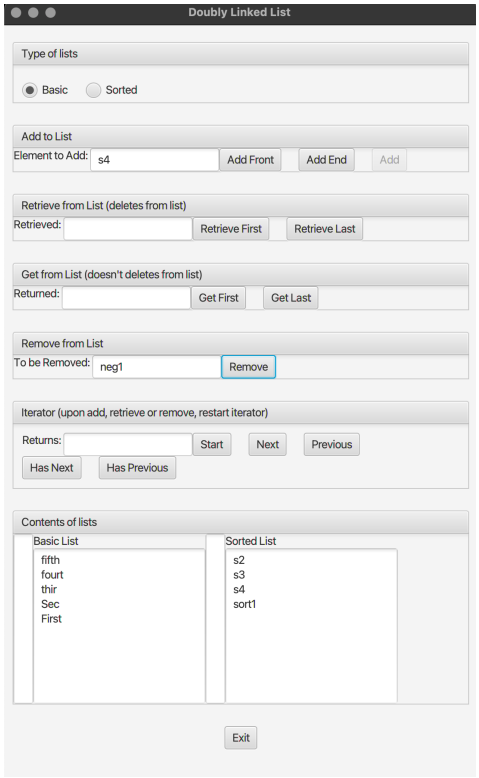


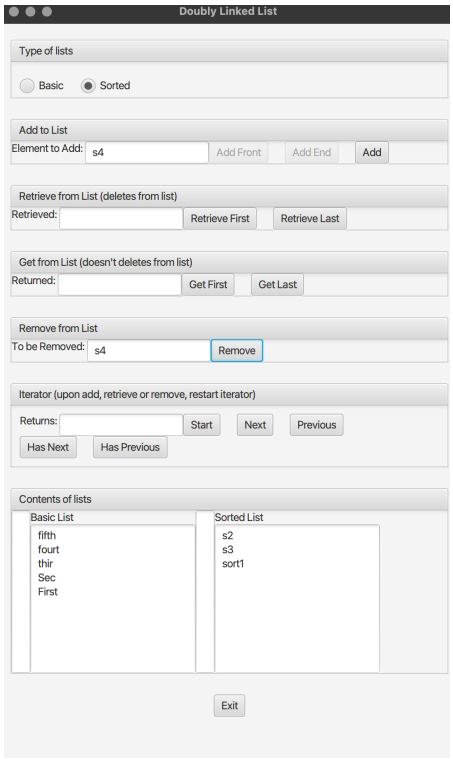
Screenshots:

Adding to basic list: **Adding to sorted list:**

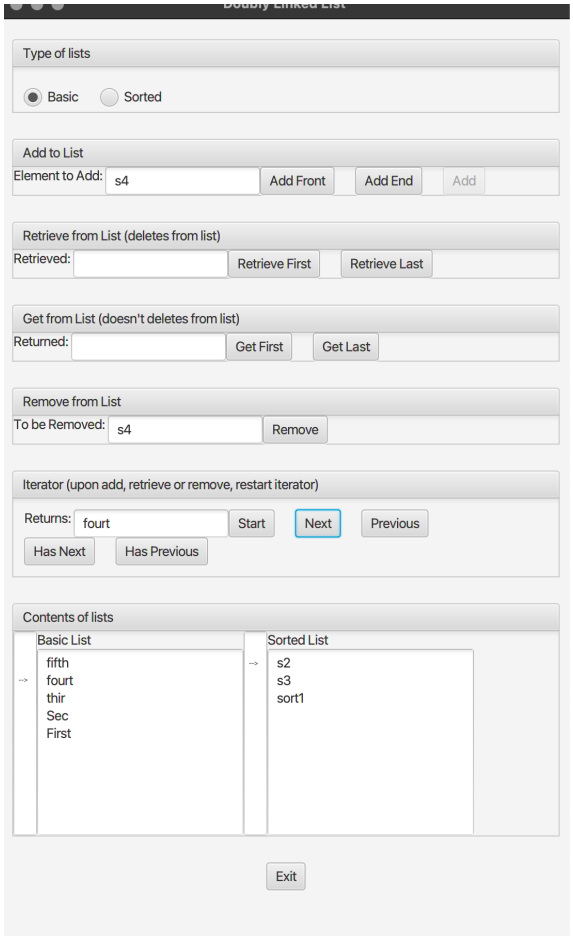


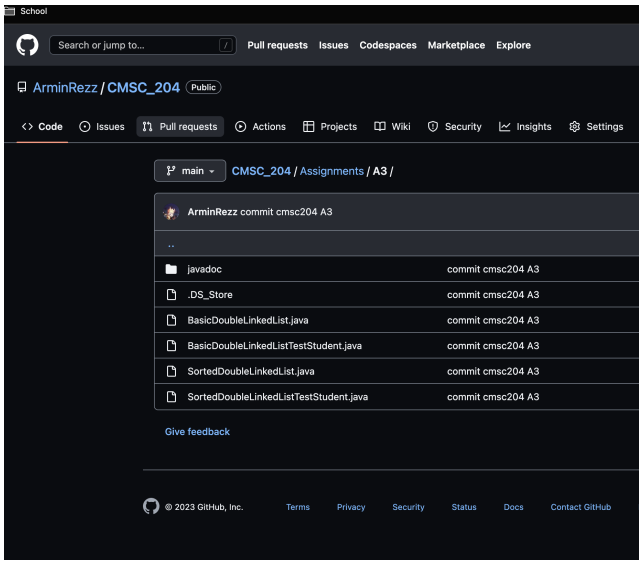






Removing neg 1 from basic and s4 from sorted
Iterator





Lessons Learned:

What have you learned?

Learned how to implement linked lists, specifically a double linked list and a sorted double linked list.

What did you struggle with?

I struggled with some of the functions thinking of how to rearrange the nodes properly. Found that using a whiteboard was quite helpful for quickly visualizing stuff.

What would you do differently on your next project?

Nothing really probably wouldve spent more time optimizing

What parts of this assignment were you successful with, and what parts (if any) were you not successful with?

Successfull with all parts.