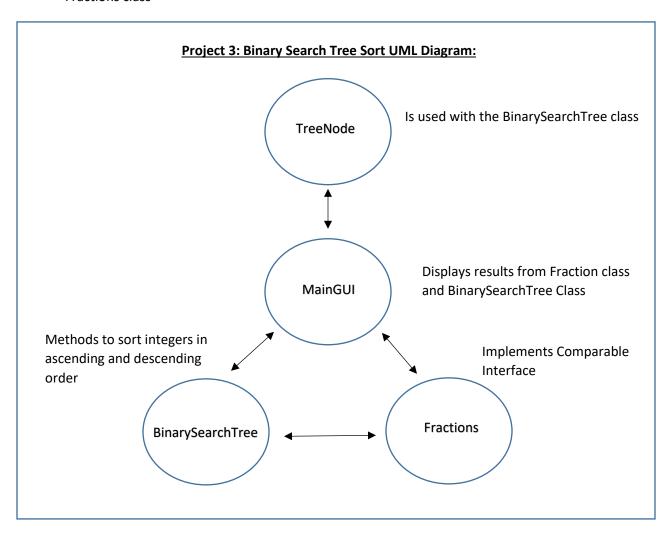
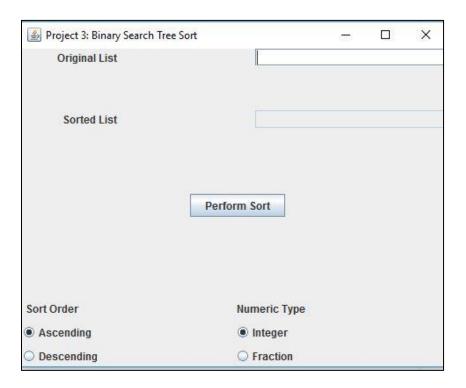
Anthony Borza

The below UML Diagram represents the java classes used throughout project 3:

- TreeNode class
- MainGUI class
- BinarySearchTree class
- Fractions class

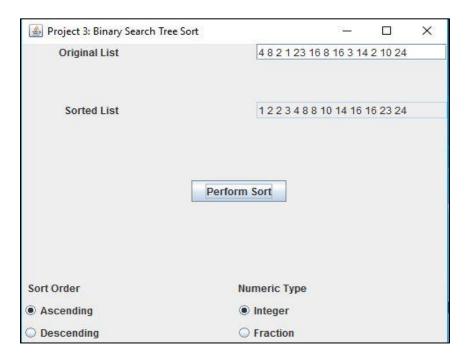


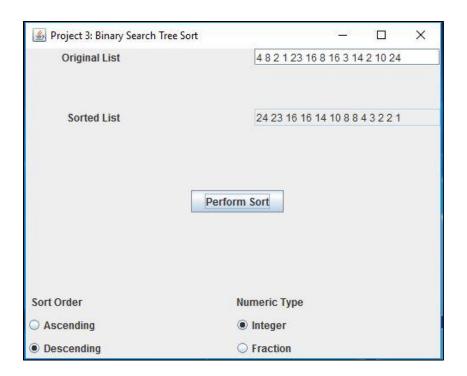
Test Plans for Project 3:



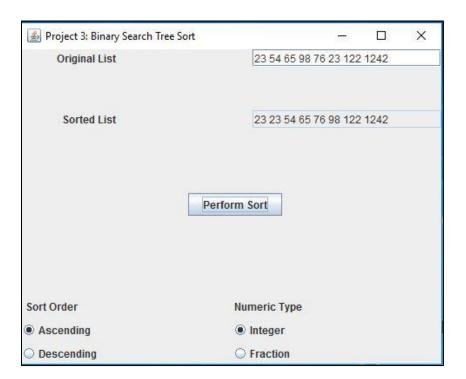
Integers:

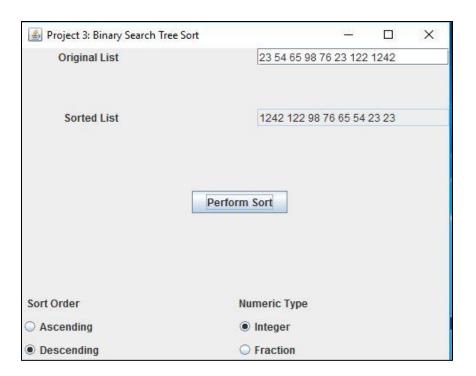
Test Case 1:



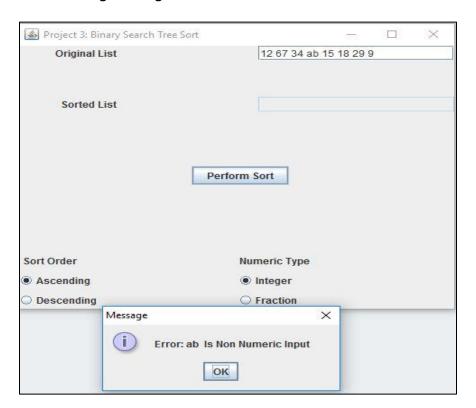


Test Case 2:



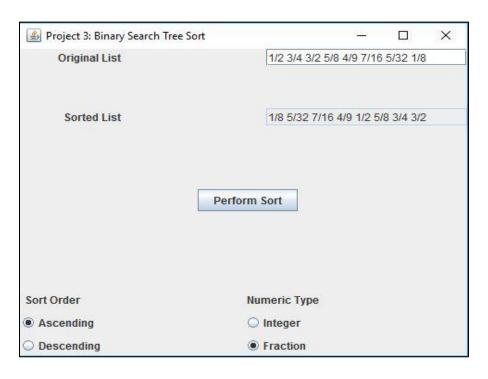


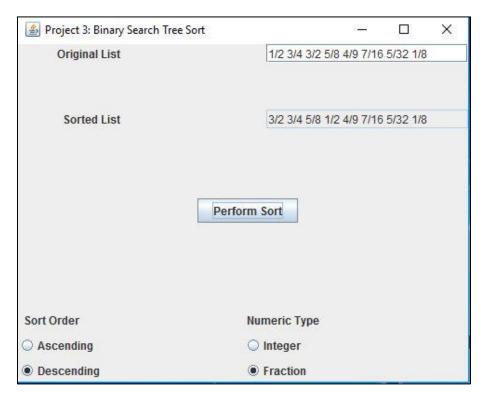
Error Checking for Integers:



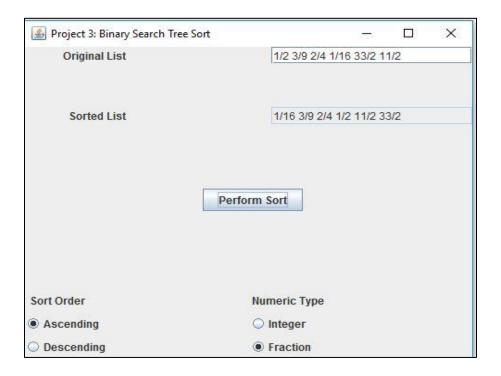
Fractions:

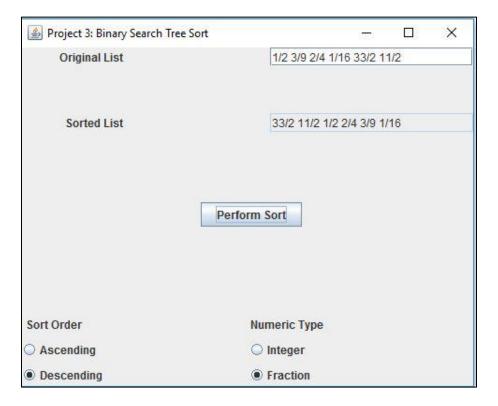
Test Case 1:





Test Case 2:





Error Checking for Fractions:

Project 3: Binar	ry Search Tree Sort				\times
Original List		1/4 /8			
Sorted List		1/4			
	Perf	orm Sort			
Sort Order		Numeric Type			
Ascending	○ Integer				
 Descending 	Fraction				
	Message		×		
	i Error: /8 Inv	alid format			
		ок			
	100				

Lessons Learned:

After completing this project there are many things that were learned. realize how important Binary Search Trees are to data structures. I learned how the tree insert method works, how the inorder method works, and how the descending order method works for sorting integers in ascending and descending order. I also learned how to sort fractions in ascending and descending order by using the comparable interface java has to offer. What is most important, like in previous projects, understanding what the problem is asking, and how to implement a solution to solve the problem only comes through trial and error. The hardest part of this project was getting the fractions to sort in ascending and descending order. It took me about a day and a half to figure out how to do it. The easiest part once everything else was working properly was developing the GUI and calling the classes. All in all, I spent a good portion of the week working on this project.