**CS 303 Data Structures**

Individual Report Project 1

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**Contributions**

My group consisted of a total of two team members for this project, Ben Teig and I. We did our best to divide the work in an even and fair manner between the two of us, trying to match tasks with our strengths.

My contributions to the project was creating the Evaluator Function and Error checks for the expression input, along with writing the official project paper and documenting the Big O notations for the code I created.

My partner was responsible for creating the stacks to evaluate the string as an infix expression. In addition to that, he created the UML Diagram and documented the Big O notations for the code he created.

**Things I learned**

Throughout this process I learned multiple new things and how to do old things in a more efficient way. I first learned it’s easier to work with team members other than yourself when you have mapped out what you want to do in an algorithm before either of you start coding. It’s imperative to be on the same page if at any time you are to work without each other. Secondly, I learned that coding is a lot quicker with access to source code on data structures, although I did struggle a bit understanding how to read and call out those predetermined functions initially. Another thing I learned is how to apply Big O, time and space efficiency to coding as I actually code. In the past I’ve always just coded to complete the project, I never thought about how my code would go into play with a larger scope. In conclusion, I think the biggest take away I had from this project was how to work with others in a programming setting, how to implement source code into your own to work out a solution faster and how to constantly think about efficiency. I learned coding is an editing and evolving process, there’s always a better way to do it.