**Team Project 1**

Project 1B – Addition of Two Polynomials

**Luke Janis**

**Max Hoffman**

**Montana Shaw**

**Robert Blocker**

**February 15th, 2022**

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# System Design

Our system implemented the use of a Linked List to store the user inputted polynomials. We used the Iterator and List\_Iterator methods given by Professor Wang to iterate through the list to find like terms for the addition of the coefficients. The system also used the Iterable and the DNode created by Professor Wang.

# UML Diagram

Abcdefghijklmnopqrstuvwxyz

# Test Cases

Abcdefghijklmnopqrstuvwxyz

# Team Member Contribution

Luke Janis – Luke worked on the development of the code for the project. Through logic and testing, Luke helped make sure the code functioned properly. Luke helped develop code in the Main class and develop the logic for the doubly linked list. Also helped with the code in the Term class.

Max Hoffman – Max worked on the development of the code for the project.

Montana Shaw – Montana worked on the development of the code for the project working on the Term class, figuring out the logic for implementing that class, and helping with the logic and code of the SortPolys() method.

Robert Blocker – Robert worked on the code development and documentation of the system. Working on the development of the SortPolys() and AddPolys() method.

# Possible Improvements

The design of the system could be improved by trying to develop a system that was more conscious of the time complexities.