CSU33012 - Software Engineering - Assignment 1

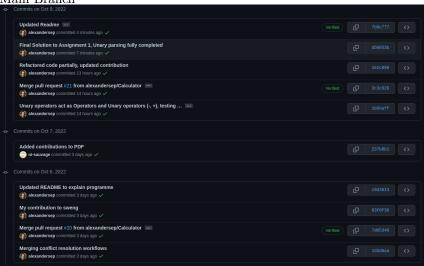
• Infix validator and calculator written in **Haskell** using *Hunit*, *QuckCheck* for unit testing and github workflow actions.

Contributors & Contributions

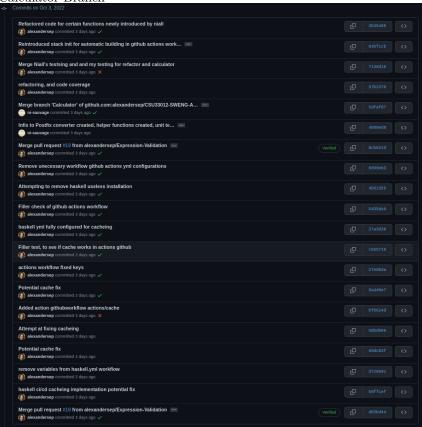
- Alexander Sepelenco
 - Acted as github lead with organising, README, issues, pull requests, github workflow, and setting up Haskell with stack.
 - Set up Haskell unit testing: Hunit, and Quickcheck.
 - Set up github including github workflow with caching.
 - Implemented the following functions and their respective unit tests isOperator, iOperand, operatorPrecedence, errorPrecedence, isOperatorLeftAssociative, errorLeftAssociativity, removeSpaces, splitToList, addZeroStringUnaryHeadPositiveOrNegative, combineUnaryOperators, removeUnaryHeadPositive, removePlusNum, combineNum
 - Implemented the basic Input and Output when running programme.
 - Implemented Unary parsing, and + and ensured it worked effectively with Niall's evaluator, and validators.
- Niall Sauvage
 - Implemented the following functions and their respective unit tests infixValidator, popOperatorStackUpToParen, infixValidator', countBrackets, infixToPostfix, popOperatorStack, getFirstElem, evaluatePostfix, evaluatePostfix', evaluateExpression.
 - Implemented parsing of inputted string into postfix once it has been split.
 - Implemented evaluation of resulting postfix strings into a single answer.
 - Worked on changes to Main.hs.

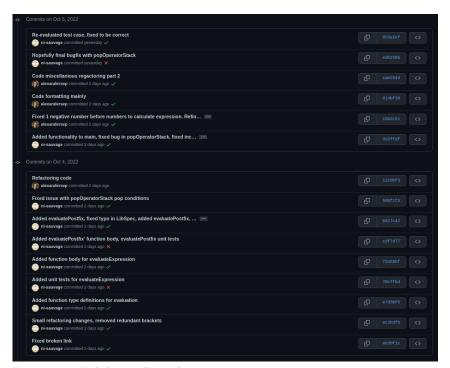
Graph of commit logs

• Main Branch

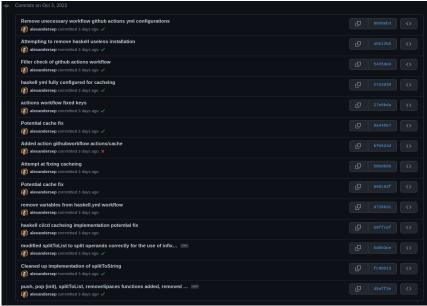


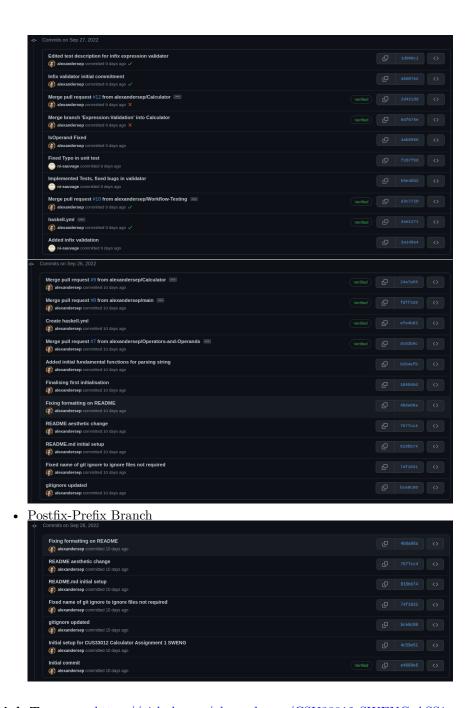
• Calculator-Branch





• Expression-Validation Branch





Link To repo https://github.com/alexandersep/CSU33012-SWENG-ASS1