Project 1:

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Assumptions:

1. We assumed the expression
2. We assumed

UML class diagram:

Evaluator

+ operands: int

+ operators: char

+ precedence: char array

+ GetPrecedence(compOp: char): int

+ CleanExpressions(expression: string): void

+ Calculate(expression: string): int

+ StackEmUp(expression: string): int

+ TheMath(left: int, right: int, opert: char): int

Efficiency of Algorithms:

* GetPrecedence
* CleanExpressions
* Calculate
* StackEmUp
* TheMath

References:

* 6-Stacks.pptx
* Objects, Abstraction, Data Structures and Design Using C++ by Elliot B. Koffman and Paul A.T. Wolfgang, John Wiley & Sons, 2006. ISBN 978-0-471-46755-7