

Responsibilities:

- 1. Evaluation thing
 - order of operations/precedence is important
 - Needs to return an answer
- 2. Input reader/processor
 - turn a string into numbers and operators
- 3. Output

Driver
+ main(args: String[]): void

Data:

- Operands (which start as strings)
- Operators

This is responsible for breaking the expression string up into individual useful units (# means end of token stream)

ExpressionReader
- expression: String - index: int
+ ExpressionReader(expression: String) + nextToken(): String

Calculator
- operands: Stack<Operands> - operators: Stack<Operators>
+ evaluate(expression: String)

" 1 + 3 + 2 * 5 " =>

1	+	...
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Operand
- value: int
+ Operand(token: String) + Operand(value: int) + getValue(): int

<<abstract>> Operator
+ Map<String, Operator> validOperators
+ execute(operandOne: Operand, operandTwo: Operand): Operand + getPrecedence(): int

