Equation Solver UML

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precedenceOf

Attributes:

+precedence (Integer)
+theOperator (Character)

Opperation:

Determines the precedence of the operator.

parseInfixToPostfix

Attributes

+inFix
+postFix(DSAQueue)
+opStack (DSAStack)
+term (Object)

Operation:

Returns a queue with the operands and operations in the right order for calulation

solve

Attributes:

+solution (Real)
+queue (DSAQueue)

Opperation:

Gets a queue then uses that queue to calculate the solution

parseNextTerm

Attributes:

+inFix
+term (Object)

Opperation:

Determines the precedence of the operator.

evaluatePostFix

Attrubites:

+answer (Double)
+postfixQueue(DSAQueue)
+stack(DSAStack)

Operation:

Evaluates the solution by the given queue.

executeOperation

Attributes:

+evalution (Double)
+op1(Double)
+op2(Double)
+op (Character)

Operation:

Does a calculation based on the inputed operator.