

Arithmetic Operations Calculator

IDEA

- A Simple compiler implementation of the front-end phases of compiler design representing a simple arithmetic operations calculator program.
- The calculator will handle the following operations:
+ | - | * | / | mod | ^ | Sqrt | (PAREN).
Applied on Integer/Floating point numbers (positive & negative).
- The implementation will be in C++ as a programming language.

Description

- The Calculator will accept any proper arithmetic syntax formed by the previously mentioned arithmetic operations and numbers, then the front-end phases will be applied on the input till the optimization of the output.

Strings samples

Accepted	Rejected
$(((-13*4) / 2) - 4) \bmod 2$	$(2*/3) - 17/0$
$(175*4.2) / (3*24) - \text{sqrt}(4)$	$(13+3 / 17+2 \bmod 5)$

Interface Prototype

0			
+/-	sqrt	^	←
mod	()	C
7	8	9	÷
4	5	6	×
1	2	3	-
0	.	=	+

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