Calculator Manual - Cheat Sheet

RESUME

The **lex** commands generates a lexical analyzer program that analyzes input and breaks it into tokens, such as numbers, letters, or operators. The tokens are defined by grammar rules set uo in the **lex** specification.

The yacc generates a parser that analyzes input using the tokens identified by the lexical analyzer and performs specified actions, such as flagging improper syntax. Together these commands generate a lexical analyzer and parser program for interpreting input and output handling.

Basic Operations

expression : expression PLUS expression expression MINUS expression expression TIMES expression expression DIVIDE expression
SUMA 1 + 1 RESTA 1 - 1 MULTIPLICACION 1 * 1 DIVISION 1 / 1
MOD
expression : expression MOD expression
MOD OF 2 % 2

POWER

POWER OF
FUNCTIONS
expression : FUNCTION LPAREN expression RPAREN
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
TANGENT $\tan(1)$
INVERSE TANGENT invtan(1)
INVERSE SINE invsen(1)
INVERSE COSINE invcos(1)
HIPERBOLIC TANGENT tanh(1)
HIPERBOLIC COSINE $\cosh(1)$
HIPERBOLIC SINE senh(1)
INVERSE HIPERBOLIC SINE asenh(1)
INVERSE HIPERBOLIC COSINE \dots acosh(1)
INVERSE HIPERBOLIC TANGENT . $atanh(1)$
LOGARITM BASE 10 log10(1)
LOGARITM BASE 2 log2(1)
SQUARE ROOT sqrt(1)
NATURAL LOGARITM $ln(1) \mid nlog(1)$

expression: expression POW expression

SET OPERATIONS

DEFINE A SET $A=\{1,2,3\}$
DEFINE A SET $B=\{3,4,5\}$
UNIVERSE just type UNI $\dots \{1,2,3,4,5\}$
INTERSECTION $A \cap B$
{3}
UNION $A \cup B$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\dots \qquad \{1,2,4,5\}$
DIFFERENCE
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\{\emptyset\}$

Important files

have a python3 version install ply package with \$pip install ply

Links and information

https://www.dabeaz.com/ply/https://www.dabeaz.com/ply/ply.html

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