

GRAMÁTICA LINGUAGEM 2M (EBNF)

PROGRAM	= FUNCTIONS MAJORF
FUNCTIONS	= 'id' PARAMS RETURNSTYPE ESCOPE FUNCTIONS ϵ
MAJORF	= 'major' 'paramBegin' 'paramEnd' 'tEmpty' ESCOPE
PARAMS	= 'paramBegin' 'paramEnd' 'paramBegin' LISTPARAMS 'paramEnd'
LISTPARAMS	= TYPE NAME TYPE NAME 'sep1' LISTPARAMS
TYPE	= 'tInt' 'tLong' 'tLogic' 'tChar' 'tCchar' 'tDec'
RETURNSTYPE	= 'tEmpty' TYPE TYPE 'arrayBegin' 'arrayEnd'
NAME	= 'id' 'id' 'arrayBegin' 'constNumInt' 'arrayEnd'
ESCOPE	= 'escBegin' COMMANDS 'escEnd' 'term'
COMMANDS	= CMD 'term' COMMANDS ϵ
CMD	= DECLARATION ATTRIBUTION FUNCCALL PRINTOUT READIN IFELSE WHILE DOWHILE ITERATOR RETURN
DECLARATION	= TYPE NAME
ATTRIBUTION	= NAME 'opAtrib' VALUE
VALUE	= ARRAY EXPRESSION
ARRAY	= 'arrayBegin' ELEMENTS 'arrayEnd' 'arrayBegin' 'arrayEnd'
ELEMENTS	= CONSTANT CONSTANT 'sep1' ELEMENTS
CONSTANT	= 'constNumInt' 'constNumDec' 'constLogic' 'constChar' 'constCchar'
EXPRESSION	(* Ver Gramática de Expressões *)
FUNCCALL	= 'id' 'paramBegin' LISTPARAMSCALL 'paramEnd'

LISTPARAMSCALL = PARAMITEM | PARAMITEM 'sep1' LISTPARAMSCALL
 PARAMITEM = CONSTANT | NAME
 PRINTOUT = 'prPrintout' 'paramBegin' MESSAGE 'paramEnd'
 MESSAGE = 'constCchar' 'opConc' MESSAGE | NAME 'opConc' MESSAGE |
 'constCchar' | NAME
 READIN = 'prReadin' 'paramBegin' TYPE 'sep1' NAME 'paramEnd'
 IFELSE = IF ELSEIF ELSE
 IF = 'prIf' 'paramBegin' EXPRESSION 'paramEnd' 'escBegin' COMMANDS
 'escEnd'
 ELSEIF = 'prElseif' 'paramBegin' EXPRESSION 'paramEnd' 'escBegin'
 COMMANDS 'escEnd' ELSEIF | ϵ
 ELSE = 'prElse' 'escBegin' COMMANDS 'escEnd' | ϵ
 WHILE = 'prWhile' 'paramBegin' EXPRESSION 'paramEnd' 'escBegin'
 COMMANDS 'escEnd'
 DOWHILE = 'prDo' 'escBegin' COMMANDS 'escEnd'
 'prWhile' 'paramBegin' EXPRESSION 'paramEnd'
 ITERATOR = 'prIterator' 'paramBegin'
 ATTRIBUTION 'sep2' EXPRESSION 'sep2' ATTRIBUTION
 'paramEnd' 'escBegin' COMMANDS 'escEnd'
 RETURN = 'prReturn' CONSTANT | 'prReturn' NAME