

GRAMÁTICA LINGUAGEM 2M (LL1)(EBNF)

PROGRAM	= (1)FUNCTIONS MAJORF
FUNCTIONS	= (2)'id' PARAMS RETURNSTYPE ESCOPE FUNCTIONS (3) ϵ
MAJORF	= (4) 'major' 'paramBegin' 'paramEnd' 'tEmpty' ESCOPE
PARAMS	= (5)'paramBegin' PARAMSFAT
PARAMSFAT	= (6)'paramEnd' (7)LISTPARAMS 'paramEnd'
LISTPARAMS	= (8)TYPE NAME LISTPARAMSFAT
LISTPARAMSFAT	= (9)'sep1' LISTPARAMS (10) ϵ
TYPE	= (11)'tInt' (12)'tLong' (13)'tLogic' (14)'tChar' (15)'tCchar' (16)'tDec'
RETURNSTYPE	= (17)'tEmpty' (18)TYPE RETURNSTYPEFAT
RETURNSTYPEFAT	= (19)'arrayBegin' 'arrayEnd' (20) ϵ
NAME	= (21)'id' NAMEFAT
NAMEFAT	= (22)'arrayBegin' EXPRESSION 'arrayEnd' (23) ϵ
ESCOPE	= (24)'escBegin' COMMANDS 'escEnd' 'term'
COMMANDS	= (25)CMD 'term' COMMANDS (26) ϵ
CMD	= (27)DECLARATION (28)'id' CMDFAT (29)PRINTOUT (30)READIN (31)IFELSE (32)WHILE (33)DOWHILE (34)ITERATOR (35)RETURN
DECLARATION	= (36)TYPE NAME
CMDFAT	= (37)ATTRIBUTION (38)FUNCCALL
ATTRIBUTION	= (39)NAMEFAT 'opAtrib' VALUE

VALUE = (40)ARRAY | **EXPRESSION**

ARRAY = (41) 'arrayBegin' ARRAYFAT

ARRAYFAT = (42)ELEMENTS 'arrayEnd' | (43)'arrayEnd'

ELEMENTS = (44)CONSTANT ELEMENTSFAT

ELEMENTSFAT = (45)'sep1' ELEMENTS | (46) ϵ

CONSTANT = (47)'constNumInt' | (48)'constNumDec' | (49)'constLogic' |
(50)'constChar' | (51)'constCchar'

EXPRESSION(* Ver Gramática de Expressões *)

FUNCCALL = (52)'paramBegin' LISTPARAMSCALL 'paramEnd'

LISTPARAMSCALL = (53)PARAMITEM LISTPARAMSCALLFAT

LISTPARAMSCALLFAT = (54)'sep1' LISTPARAMSCALL | (55) ϵ

PARAMITEM = (56)CONSTANT | (57)NAME

PRINTOUT = (58)'prPrintout' 'paramBegin' MESSAGE 'paramEnd'

MESSAGE = (59)'constCchar' MESSAGEFAT | (60)NAME MESSAGEFAT

MESSAGEFAT = (61)'opConc' MESSAGE | (62) ϵ

READIN = (63)'prReadin' 'paramBegin' TYPE 'sep1' NAME 'paramEnd'

IFELSE = (64)IF ELSEIF ELSE

IF = (65)'prIf' 'paramBegin' EXPRESSION 'paramEnd' 'escBegin'
COMMANDS 'escEnd'

ELSEIF = (66)'prElseIf' paramBegin' EXPRESSION 'paramEnd' 'escBegin'

COMMANDS 'escEnd' ELSEIF | (67) ϵ

ELSE = (68)'prElse' 'escBegin' COMMANDS 'escEnd' | (69) ϵ

WHILE = (70)'prWhile' 'paramBegin' EXPRESSION 'paramEnd' 'escBegin'
COMMANDS 'escEnd'

DOWHILE = (71)'prDo' 'escBegin' COMMANDS 'escEnd'
'prWhile' 'paramBegin' EXPRESSION 'paramEnd'

ITERATOR = (72)'prIterator' 'paramBegin'
ATTRIBUTION 'sep2' EXPRESSION 'sep2' ATTRIBUTION
'paramEnd' 'escBegin' COMMANDS 'escEnd'

RETURN = (73)'prReturn' RETURNFAT

RETURNFAT = (74)CONSTANT | (75)NAME