```
1 Pgm → LDecl LFunc 'INIT' 'DP' LBloc 'FDA'
                                                             first(Pgm) = {tipos, 'FUNC', 'INIT'}
2 LDecl → Decl 'PV' LDecl
                                                             first(LDecl) = {tipos}
3 LDecl → $
                                                             follow(LDecl) = {'FUNC', 'INIT'}
4 Decl = Tipo Lld
                                                             first(Decl) = {'tipos'}
5 Tipo = 'INT'
                                                             first(Tipos) = {'INT'}
6 Tipo = 'REL'
                                                             first(Tipos) = {'REL}
7 Tipo = 'LET'
                                                             first(Tipos) = {'LET'}
8 Tipo = 'PAL'
                                                             first(Tipos) = {'PAL'}
9 Tipo = 'BOL'
                                                             first(Tipos) = {'BOL'}
10 Tipo = 'VET' 'ALIST' Tipo 'FLIST'
                                                             first(Tipos) = {'VET'}
11 Lld = 'VAR' Lldx
                                                             first(Lld) = {'VAR'}
12 Lldx = 'VIR' Lld
                                                             first(Lldx) = {'VIR'}
13 Lldx = 'IGUAL' Exp Lldxx
                                                             first(Lldx) = {'IGUAL'}
14 Lldx = $
                                                             follow(Lldx) = {'PV'}
15 Lldxx = 'VIR' Lld
                                                             first(Lldxx) = {'VIR'}
16 Lldxx = $
                                                             follow(Lldxx) = {'PV'}
17 Exp = Fb Expx
first(Exp) = {'OPN', 'OPA', 'AEXP', consts, 'ALIST', 'VAR'}
18 Expx = 'OPLOG' Fb Expx
                                                             first(Expx) = {'OPLOG'}
                                      follow(Expx) = {'VIR', 'PV', 'FEXP', 'FLIST', 'ABLOCO'}
19 Expx = $
20 Fb = 'OPN' Fb
                                                             first(Fb) = {'OPN'}
                                      first(Fb) = {'OPA', 'AEXP', consts, 'ALIST', 'VAR'}
21 Fb = ExpA Fbx
22 Fbx = 'OPCOMP' ExpA
                                                             first(Fbx) = {'OPCOMP'}
                              follow(Fbx) = {'OPLOG', 'VIR', 'PV', 'FEXP', 'FLIST', 'ABLOCO'}
23 \text{ Fbx} = \$
24 ExpA = ExpM ExpAx
                                      first(ExpA) = {'OPA', 'AEXP', consts, 'ALIST', 'VAR'}
25 ExpAx = 'OPA' ExpM ExpAx
                                                             first(ExpAx) = {'OPA'}
26 ExpAx = $
follow(ExpAx) = {'OPCOMP', 'OPLOG', 'VIR', 'PV', 'FEXP', 'FLIST', 'ABLOCO'}
27 ExpM = ExpS ExpMx
                                     first(ExpM) = {'OPA', 'AEXP', consts, 'ALIST', 'VAR'}
28 ExpMx = 'OPM' ExpS ExpMx
                                                             first(ExpM) = {'OPM'}
29 ExpMx = $
follow(ExpMx) = {'OPA', 'OPCOMP', 'OPLOG', 'VIR', 'PV', 'FEXP', 'FLIST', 'ABLOCO'}
30 ExpS = 'OPA' ExpS
                                                             first(ExpS) = {'OPA'}
31 ExpS = 'AEXP' Exp 'FEXP'
                                                             first(ExpS) = {'AEXP'}
32 ExpS = 'CONSTI'
                                                             first(ExpS) = {'CONSTI'}
33 ExpS = 'CONSTR'
                                                             first(ExpS) = {'CONSTR'}
34 ExpS = 'CONSTL'
                                                             first(ExpS) = {'CONSTL'}
35 ExpS = 'CONSTP'
                                                             first(ExpS) = {'CONSTP'}
36 ExpS = 'CONSTB'
                                                             first(ExpS) = {'CONSTB'}
                                                             first(ExpS) = {'ALIST'}
37 ExpS = 'ALIST' ExpLA 'FLIST'
38 ExpS = 'VAR' Id
                                                             first(ExpS) = {'VAR'}
39 Id = 'AEXP' ExpLA 'FEXP'
                                                             first(Id) = {'AEXP'}
40 Id = 'ALIST' Exp 'FLIST'
                                                             first(Id) = {'ALIST'}
41 \text{ Id} = $
follow(Id) = {'OPA', 'OPM', 'OPCOMP', 'OPLOG', 'VIR', 'PV', 'FEXP', 'FLIST', 'ABLOCO'}
42 LFunc = 'FUNC' 'VAR' 'AEXP' LArg 'ABLOCO' LBloc Ret LFunc first(LFunc)={'FUNC'}
43 LFunc = $
                                                             follow(LFunc) = {'INIT'}
44 LArg = LArgOb 'FEXP'
                                                             first(LArg) = {tipos}
45 LArg = 'FEXP'
                                                             first(LArg) = {'FEXP'}
46 LArgOb = Tipo 'VAR' LArgObx
                                                             first(LArgOb) = {tipos}
47 LArgObx = 'VIR' LArgOb
                                                             first(LArgObx) = {'VIR'}
48 LArgObx = 'IGUAL' Exp LArgOp
                                                             first(LArgObx) = {'IGUAL'}
```

```
49 LArgObx = $
                                                            follow(LArgObx) = {'FEXP'}
50 LArgOp = 'VIR' Tipo 'VAR' 'IGUAL' Exp LArgOp
                                                            first(LArgOp) = {'VIR'}
51 LArgOp = $
                                                            follow(LargOp) = {'FEXP'}
                                     first(LBloc) = {'VAR', 'SE', 'ENQ', 'PARA', 'TEC', 'MON'}
52 LBloc = Bloc LBloc
53 LBloc = $
                                                    follow(LBloc) = {'FDA', 'RET', 'FBLOCO'}
                                                            first(Bloc) = {'VAR'}
54 Bloc = 'VAR' IgFunc 'PV'
55 Bloc = 'SE' Exp 'ABLOCO' LBloc 'FBLOCO' SeN
                                                            first(Bloc) = {'SE'}
56 Bloc = ENQ Exp 'ABLOCO' LBloc 'FBLOCO'
                                                            first(Bloc) = {'ENQ'}
57 Bloc = 'PARA' 'VAR' 'IGUAL' Exp 'VIR' Exp PaOp 'ABLOCO' LBloc 'FBLOCO' f(B) = {'PARA'}
58 Bloc = 'MON' Exp MonOp 'PV'
                                                            first(Bloc) = {'MON'}
59 Bloc = 'TEC' 'VAR' TecOp 'PV'
                                                            first(Bloc) = {'TEC'}
60 IgFunc = 'IGUAL' Exp
                                                            first(IgFunc) = {'IGUAL'}
61 IgFunc = 'ALIST' Exp 'FLIST' 'IGUAL' Exp
                                                            first(IgFunc) = {'ALIST'}
62 IgFunc = 'AEXP' ExpLA 'FEXP'
                                                            first(IgFunc) = {'AEXP'}
63 ExpLA = Exp ExpLAx
                                 first(ExpLA) = {'OPN', 'OPA', 'AEXP', consts, 'ALIST', 'VAR'}
64 ExpLA = $
                                                            follow(ExpLA) = {'FEXP', 'FLIST'}
65 ExpLAx = 'VIR' Exp ExpLAx
                                                            first(ExpLAx) = {'VIR'}
66 ExpLAx = $
                                                            follow(ExpLAx) = {'FEXP', 'FLIST'}
67 SeN = 'SEN' 'ABLOCO' LBloc 'FBLOCO'
                                                            first(SeN) = {'SEN'}
68 SeN = $
follow(SeN) = {'VAR', 'SE', 'ENQ', 'PARA', 'TEC', 'MON', 'FDA', 'RET', 'FBLOCO'}
69 PaOp = 'VIR' Exp
                                                            first(PaOp) = {'VIR'}
70 PaOp = $
                                                            follow(PaOp) = {'ABLOCO'}
71 MonOp = 'VIR' Exp MonOp
                                                            first(MonOp) = {'VIR'}
72 MonOp = $
                                                            follow(MonOp) = {'PV'}
73 TecOp = 'VIR' 'VAR' TecOp
                                                            first(TecOp) = {'VIR'}
74 TecOp = $
                                                            follow(TecOp) = {'PV'}
75 Ret = 'RET' Exp 'PV' 'FBLOCO'
                                                            first(Ret) = {'RET'}
                                                            first(Ret) = {'FBLOCO'}
76 Ret = 'FBLOCO'
```

Tabela de análise pode ser vista em:

https://docs.google.com/spreadsheets/d/1EGslcxvMSHRJil9rJfq8y6QXhGDS15NX5EvGdWc5764/edit?usp=sharing

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L I d	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L I d x	0	0	0	1	0	1 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 3	0	0	0	0	0	0	0
L I d x x	0	0	0	1 6	0	1 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E x p	0	0	0	0	0	0	1	0	0	0	0	0	0		1					0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0
E x p x	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		1 9	0	0	1 9	0	0	0	1 8	0	0	0	0	0	0	0	0	0
F b	0		0				2							2	2	2	2	2	2				2		2				2								
F b x	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	2	0	0	2	2	0	0	0	0	0	0	0	0	0
E x p A	0	0	0	0	0	0	2	0	0	0	0	0	0	2	2	2	2	2	2	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0
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L B I o c	0	0	5 3	0	0	0	5 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5 3	0	0	0	0	0	0	0	0	5 2	0	5 2	5 2	5 2	5 2	5 3	0
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I g F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6	0	0	0	0	0	0	6 0	0	0	0	0	0	0	0	0

T S C O	M o n O p	P a O p	S e N	ExpLAx	E x p L	u n c
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7	7 2	0	0	0	0	
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