LALG FATORADA

1. PROGRAM -> **program** **identificador** **;** BLOCO **.**
2. BLOCO -> PARTE\_DECL\_VAR DECL\_PROC CMD\_COMPOSTO
3. TIPO -> **identificador**
4. PARTE\_DECL\_VAR -> DECL\_VAR; PARTE\_DECL\_VAR | **ε**
5. DECL\_VAR -> TIPO LISTA\_IDENT
6. LISTA\_IDENT -> **identificador** IDENT\_LOOP
7. IDENT\_LOOP -> , **identificador** IDENT\_LOOP | **ε**
8. DECL\_PROC -> **procedure** **identificador** PARAM\_FORM **;** BLOCO ; | **ε**
9. PARAM\_FORM -> **(**SEC\_PARAM\_FORM SEC\_PARAM\_FORM\_LOOP **) |** **ε**
10. SEC\_PARAM\_FORM\_LOOP -> **;** SEC\_PARAM\_FORM SEC\_PARAM\_FORM\_LOOP | **ε**
11. SEC\_PARAM\_FORM -> **var** LISTA\_IDENT **:** **identificador**  | LISTA\_IDENT **:** **identificador**
12. CMD\_COMPOSTO -> **begin** COMANDO CMD\_LOOP **end**
13. CMD\_LOOP -> **;** COMANDO CMD\_LOOP | **ε**
14. COMANDO -> START\_IDENT | CMD\_COMPOSTO | CMD\_COND | CMD\_REP
15. START\_IDENT -> **identificador** OPT\_IDENT
16. OPT\_IDENT -> := EXPRESSAO | OPT\_LISTA\_EXPR | EXPR\_OPT
17. OPT\_LISTA\_EXPR -> **(** LISTA\_EXPR **)** | **ε**
18. CMD\_COND -> **if** EXPRESSAO **then** COMANDO ELSE\_CMD\_OPT
19. ELSE\_CMD\_OPT -> **else** COMANDO | **ε**
20. CMD\_REP -> **while** EXPRESSAO **do** COMANDO
21. EXPRESSAO -> EXPR\_SIMPL RELA\_OPT
22. RELA\_OPT -> RELACAO EXPR\_SIMPL | **ε**
23. RELACAO -> **=** | **<>** | **<** | **<=** | **>=** | **>**
24. EXPR\_SIMPL -> SINAL\_OPT TERMO TERMO\_LOOP
25. SINAL\_N\_OPT -> **+** | **-**
26. SINAL\_OPT -> SINAL\_N\_OPT | **ε**
27. TERMO\_LOOP -> SINAL\_N\_OPT TERMO TERMO\_LOOP | **or** TERMO TERMO\_LOOP | **ε**
28. TERMO -> FATOR FATOR\_LOOP
29. FATOR\_LOOP -> **\*** FATOR FATOR\_LOOP | **div** FATOR FATOR\_LOOP | **and** FATOR FATOR\_LOOP | **ε**
30. VARIAVEL -> **identificador** EXPR\_OPT
31. FATOR -> VARIAVEL | **numero** | **(** EXPRESSAO **)** | **not** FATOR
32. EXPR\_OPT -> EXPRESSAO | **ε**
33. LISTA\_EXPR -> EXPRESSAO EXPR\_LOOP
34. EXPR\_LOOP -> **,** EXPRESSAO EXPR\_LOOP | **ε**