GRAMATICA

1. <PROGRAM> → class (id) <DECLARA> <ESTATUTOS> endclass
2. <DECLARA> → declare <B> of <TIPO>; <AUX>
3. <DECLARA> → €
4. <B> → <ID\_DIM> <AUX2>
5. <ID\_DIM> → id <C>
6. <C> → [cteentera] <AUX3>
7. <AUX3> → <C>
8. <AUX3> → €
9. <AUX2> → <B>
10. <AUX2> → €
11. <TIPO> → int
12. <TIPO> → float
13. <TIPO> → caracter
14. <TIPO> → string
15. <AUX> → <DECLARA>
16. <AUX> → €
17. <ESTATUTOS> → <E> ; <AUX4>
18. <ESTATUTOS> → €
19. <E> → <EST\_ASIG>
20. <E> → <EST\_IF>
21. <E> → <EST\_WHILE>
22. <E> → <EST\_DO>
23. <E> → <EST\_READ>
24. <E> → <EST\_WRITE>
25. <AUX4> → <ESTATUTOS>
26. <AUX4> → €
27. <EST\_ASIG> → <ASIG> = <EXPR>
28. <ASIG> → id <DIM\_ASIG>
29. <DIM\_ASIG> → €
30. <DIM\_ASIG> → [<EXPR> <AUX5>]
31. <AUX5> → , <EXPR> <AUX5>
32. <AUX5> → €
33. <EST\_IF> → if(<EXPR>) <ESTATUTOS> <H> endif
34. <H> → else <ESTATUTOS>
35. <H> → €
36. <EST\_WHILE> → while (<EXPR>) <ESTATUTOS> endwhile
37. <EST\_DO> → do <ESTATUTOS> dowhile (<EXPR>) enddo
38. <EST\_READ> → read (<I>)
39. <I> → id <AUX6>
40. <AUX6> → , <I>
41. <AUX6> → €
42. <EST\_WRITE> → write (<J>)
43. <J> → <EXPR> <AUX7>
44. <AUX7> → , <J>
45. <AUX7> → €
46. <EXPR> → <EXPR2> <AUX8>
47. <AUX8> → || <EXPR2> <AUX8>
48. <AUX8> → €
49. <EXPR2> → <EXP3> <AUX9>
50. <AUX9> → && <EXP3> <AUX9>
51. <AUX9> → €
52. <EXPR3> → **<NOT>** <EXPR4>
53. **<NOT>** → !
54. **<NOT>** → €
55. <EXPR4> → <EXPR5> <M>
56. <M> → <OPREL> <EXPR5>
57. **<M> → €**
58. <OPREL> → ==
59. <OPREL> → !=
60. <OPREL> → <
61. <OPREL> → <=
62. <OPREL> → >
63. <OPREL> → >=
64. <EXPR5> → <TERM> <AUX10>
65. <AUX10> → + <EXPR5>
66. <AUX10> → - <EXPR5>
67. <AUX10> → €
68. <TERM> → <FACT> <AUX11>
69. <AUX11> → \* **<TERM>**
70. <AUX11> → / **<TERM>**
71. <AUX11> → % **<TERM>**
72. <AUX11> → €
73. <FACT> → <ASIG>
74. <FACT> → cteentera
75. <FACT> → ctereal
76. <FACT> → ctenotacion
77. <FACT> → ctecaracter
78. <FACT> → ctestring
79. <FACT> → ( <EXPR> )

FIRST

<PROGRAM> {class}

<DECLARA> {declare, €}

<B> {id}

<ID\_DIM> {id}

<C> {[}

<AUX3> {[, €}

<AUX2> {,, €}

<TIPO> {int, float, char, string}

<AUX> {declare €}

<ESTATUTOS> {id, if, while, do, read, wrrite, €}

<D> {id, if, while, do, read, write}

<E> {id, if, while, do, read, write}

<AUX4> {id, if, while, do, read, write, €}

<EST\_ASIG> {id}

<ASIG> {id}

<F> {[, €}

<DIM\_ASIG> {[}

<G> {!, id, cteentera, ctereal, ctenotacion, ctecaracter, ctestring,(}

<AUX5> {,, €}

<EST\_IF> {if}

<H> {else, €}

<EST\_WHILE> {while}

<EST\_DO> {do}

<EST\_READ> {read}

<I> {id}

<AUX6> {,, €}

<EST\_WRITE> {write}

<J> {!, id, cteentera, ctereal, ctenotacion, ctecaracter, ctestring,(}

<AUX7> {,, €}

<EXPR> {!, id, cteentera, ctereal, ctenotacion, ctecaracter, ctestring,(}

<K> {!, id, cteentera, ctereal, ctenotacion, ctecaracter, ctestring,(}

<AUX8> {||, €}

<EXPR2> {!, id, cteentera, ctereal, ctenotacion, ctecaracter, ctestring,(}

<L> {!, id, cteentera, ctereal, ctenotacion, ctecaracter, ctestring,(}

<AUX9> {&&, €}

<EXPR3> {!, id, cteentera, ctereal, ctenotacion, ctecaracter, ctestring,(}

<EXPR4> {id, cteentera, ctereal, ctenotacion, ctecaracter, ctestring,(}

<M> {==, !=, <, <=, >, >=}

<OPREL> {==, !=, <, <=, >, >=}

<EXPR5> {id, cteentera, ctereal, ctenotacion, ctecaracter, ctestring,(}

<N> {id, cteentera, ctereal, ctenotacion, ctecaracter, ctestring,(}

<AUX10> {+, -, €}

<TERM> {id, cteentera, ctereal, ctenotacion, ctecaracter, ctestring,(}

<O> {id, cteentera, ctereal, ctenotacion, ctecaracter, ctestring,(}

<AUX11> {\*, /, %, €}

<FACT> {id, cteentera, ctereal, ctenotacion, ctecaracter, ctestring,(}

FOLLOW

<PROGRAM> {$}

<DECLARA> {id, while, if, do, read, write, endclass, else, endwhile, dowhile, endif }

<A> {id, while, if, do, read, write, endclass, else, endwhile, dowhile, endif }

<B> {of}

<ID\_DIM> {,, of}

<C> {,, of}

<AUX3> {,, of}

<AUX2> {of}

<TIPO> {;}

<AUX> {id, while, if, do, read, write, endclass, else, endwhile, dowhile, endif }

<ESTATUTOS> {endclass, else, endwhile, dowhile, endif}

<D> {endclass, else, endwhile, dowhile, endif}

<E> {;}

<AUX4> {endclass, else, endwhile, dowhile, endif}

<EST\_ASIG> {;}

<ASIG> {=}

<F> {=}

<DIM\_ASIG> {=}

<G> {]}

<AUX5> {]}

<EST\_IF> {;}

<H> {endif}

<EST\_WHILE> {;}

<EST\_DO> {;}

<EST\_READ> {;}

<I> {)}

<AUX6> {)}

<EST\_WRITE> {;}

<J> {)}

<AUX7> {)}

<EXPR> {;, ], ,, )}

<K> {;, ], ,, )}

<AUX8> {;, ], ,, )}

<EXPR2> {||, ;, ], ,, )}

<L> {||, ;, ], ,, )}

<AUX9> {||, ;, ], ,, )}

<EXPR3> {&&, ||, ;, ], ,, )}

<EXPR4> {&&, ||, ;, ], ,, )}

<M> {&&, ||, ;, ], ,, )}

<OPREL> {id, cteentera, cteeal, ctenotacion, ctecaracter, ctestring, (}

<EXPR5> {==, !=, <, <=, >, >=}

<N> {==, !=, <, <=, >, >=}

<AUX10> {==, !=, <, <=, >, >=}

<TERM> {==, !=, <, <=, >, >=, +, - }

<O> {==, !=, <, <=, >, >=, +, - }

<AUX11> {==, !=, <, <=, >, >=, +, - }

<FACT> {\*, /, %, ==, !=, <, <=, >, >=, +, -}