BNF Grammar for C-Minus

```
1.
     program \rightarrow declaration-list
2.
     declaration-list → declaration | declaration
3.
     declaration \rightarrow var-declaration \mid fun-declaration
4.
     var-declaration \rightarrow type-specifier ID; / type-specifier ID [ NUMENT ];
5.
     type-specifier → int | float / char | void
6.
     fun-declaration \rightarrow type-specifier ID ( params ) compound-stmt
7.
     params → param-list / void
8.
     param-list → param-list , param | param
9.
     param \rightarrow type-specifier ID / type-specifier ID [ ]
10.
     compound-stmt \rightarrow \{ local-declarations statement-list \}
11.
     local-declarations \rightarrow local-declarations \vee ar-declarations \mid empty
12.
     statement-list \rightarrow statement-list statement | empty
13.
     statement → expression-stmt | compound-stmt | selection-stmt | iteration-stmt | return-stmt
14.
     expression-stmt \rightarrow expression ; / ;
15.
     selection-stmt \rightarrow if ( expression ) statement / if ( expression ) statement
16.
     iteration-stmt \rightarrow while ( expression ) statement
17.
     return-stmt → return ; / return expression ;
18.
     expression \rightarrow var = expression \mid simple-expression
19.
     var \rightarrow ID / ID [expression]
20.
     simple-expression \rightarrow additive-expression relop additive-expression | additive-expression
     relop \rightarrow \langle = / \langle / \rangle / \rangle = / = / ! =
21.
22.
     additive-expression \rightarrow additive-expression addop term | term
23.
     addop \rightarrow + / -
24. term \rightarrow term \ mulop \ factor \ / \ factor
25.
    mulop \rightarrow * / / | %
26. factor \rightarrow (expression) / var / call / NUMENT | NUMREAL | CHAR
27. call \rightarrow ID (args)
28.
     args \rightarrow arg-list | empty
29.
     arg-list \rightarrow arg-list \downarrow expression \mid expression
TOKENS DEL LENGUAJE
Keywords: else if int float char return void while
Special symbols: + - * / % < <= > >= != ; , ( ) [ ] { } /* */
ID = letter (letter| digit| )
       Comienzan con una letra mayúscula o minúscula, seguida de cualquier
cantidad de letras minúsculas, mayúsculas, dígitos o guion bajo
NUMENT = digit digit
NUMREAL
         contienen punto y parte decimal
CHAR = un carácter simple encerrado en comillas simples
letter = a | .. | z | A | .. | Z
digit = 0 | .. | 9
Ignorar espacios en blanco y comentarios
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Comments: /* ... */ Varias líneas

Una sola línea

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