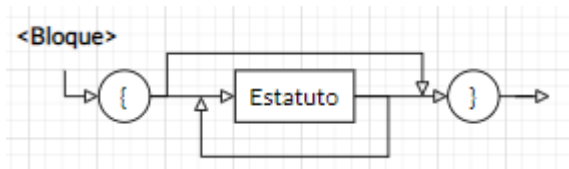
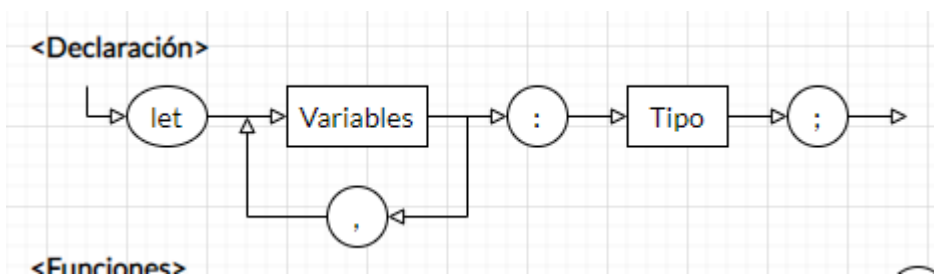


Programa → program **<id>** ; <Declaración> <Funciones> main() <Bloque>



Bloque → {<Bloque_prime>}

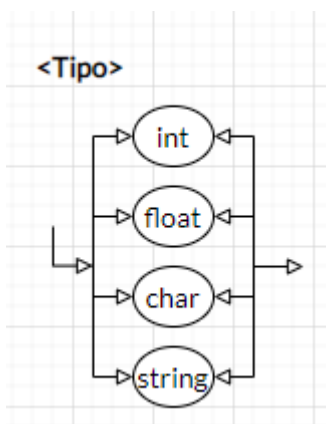
Bloque_prime → <Estatuto>; <Bloque_prime> | eps



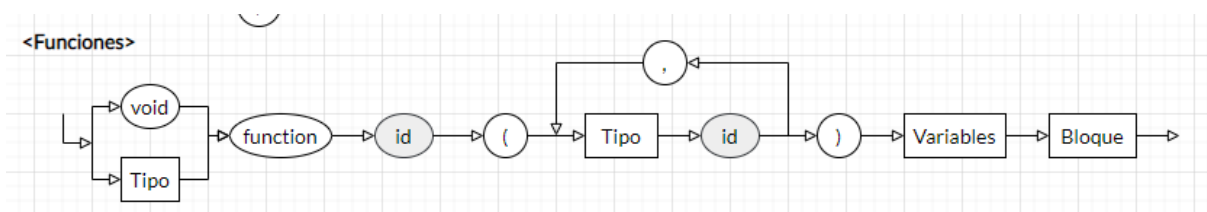
Declaración → <Declaración_base> | <Declaración_base> <Declaración>

Declaración_base → let <Declaración_prime> : <Tipo>;

Declaración_prime → <Variable> | <Variable>, <Declaración_prime>



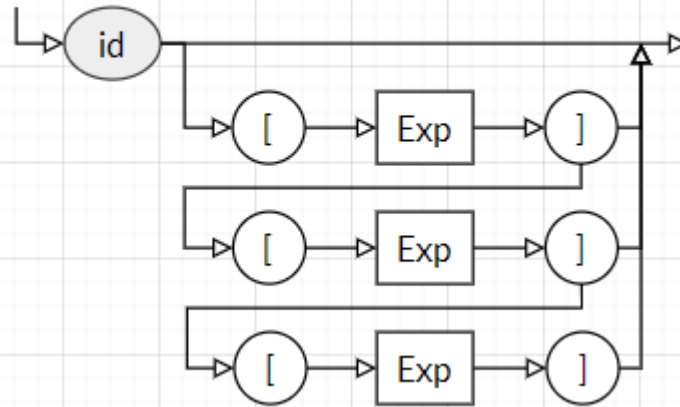
Tipo → int | float | char | string



Funciones → <Funcion_base> | <Funcion_base> <Funciones>

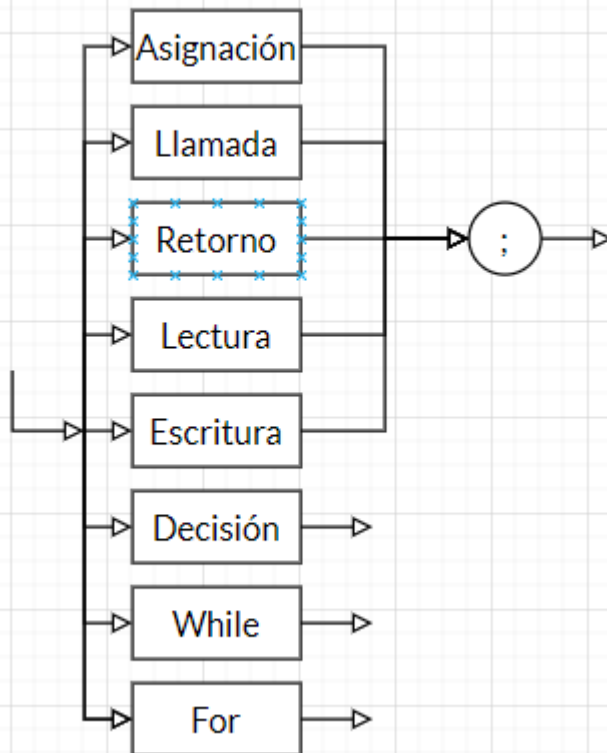
Funciones_base \rightarrow function <Func_Type> <id> (<Funciones_prime>) <Declaración>
 <Bloque>
 Funciones_prime \rightarrow <Tipo> <id> | <Tipo> <id> , <Funciones_prime>
 Func_type \rightarrow void | <Tipo>

<Variables>



Variable \rightarrow <id>
 | <id> [<Exp>]
 | <id> [<Exp>][<Exp>]
 | <id> [<Exp>][<Exp>][<Exp>]

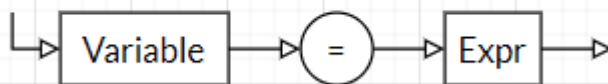
<Estatuto>



Estatuto \rightarrow <Asignación> ;

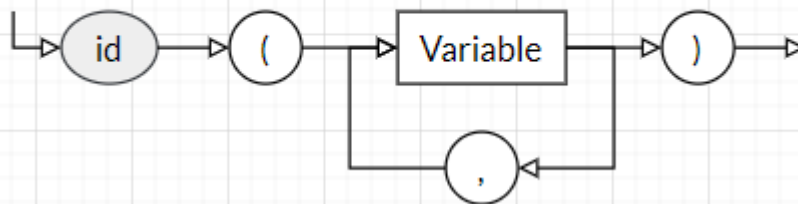
| <Llamada> ;
 | <Retorno> ;
 | <Lectura> ;
 | <Escritura> ;
 | <Decisión>
 | <While>
 | <For>
 | <Expr>

<Asignación>



Asignación → <Variable> = <Expr>

<Llamada>



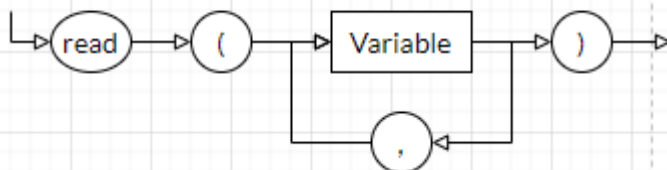
Llamada → <id> (<Llamada_prime>)
 <Llamada_prime> → <Exp> | <Exp>, <Llamada_prime>

<Retorno>

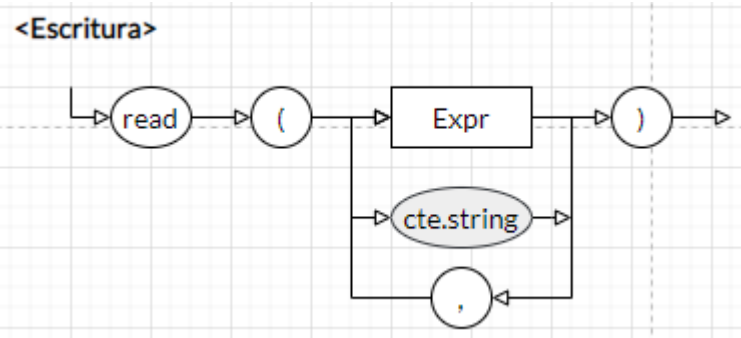


Retorno → return (<Expr>)

<Lectura>



Lectura → read (<Lectura_prime>)
 Lectura_prime → → <Variable> | <Variable>, <Lectura_prime>



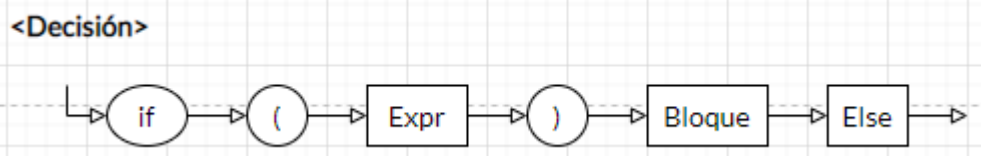
Escritura \rightarrow write (<Escritura_prime>)

Escritura_prime \rightarrow <Expr>

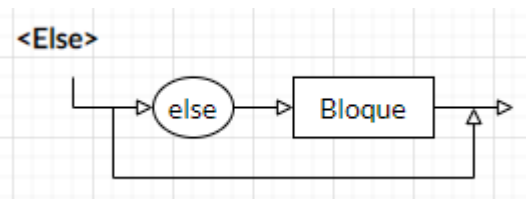
| <Cte_string>

| <Expr>, <Escritura_prime>

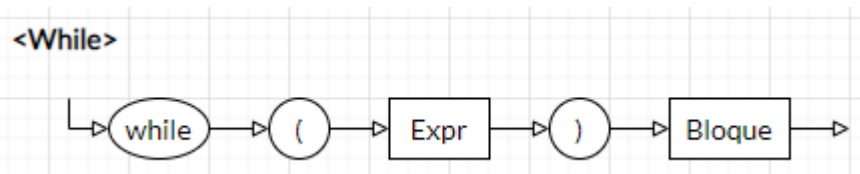
| <Cte_string>, <Escritura_prime>



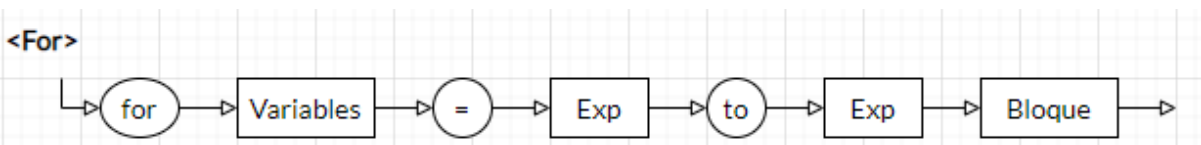
Decisión \rightarrow if (<Expr>) <Bloque> <Else>



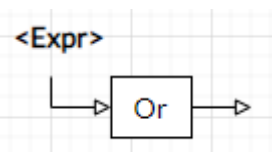
Else \rightarrow else <Bloque> | eps



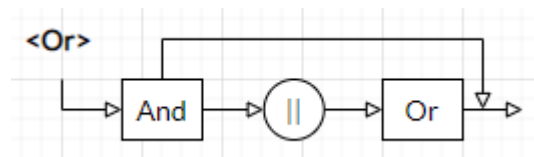
While \rightarrow while (<Expr>) <Bloque>



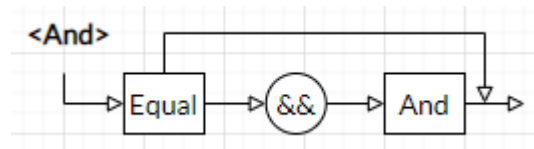
For \rightarrow for <Variable> = <Exp> to <Exp> <Bloque>



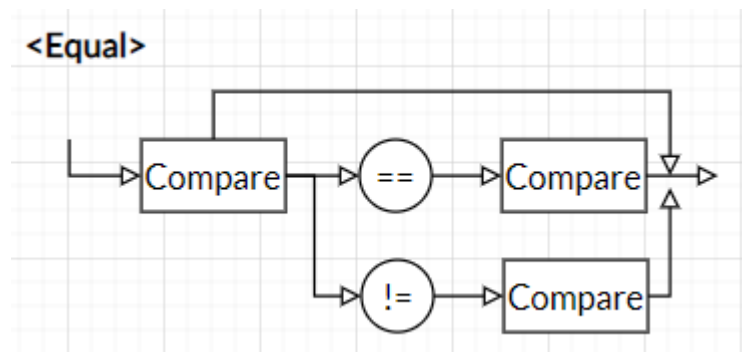
Expr \rightarrow <Or>



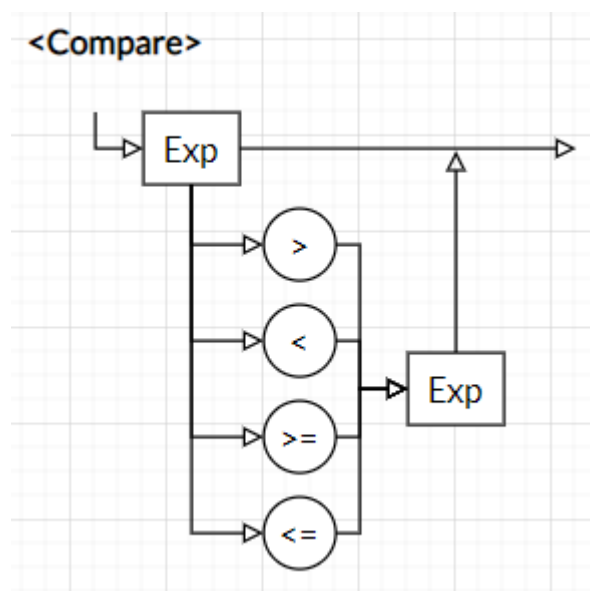
Or \rightarrow <And>
| <And> || <Or>



And \rightarrow <Equal>
| <Equal> && <And>



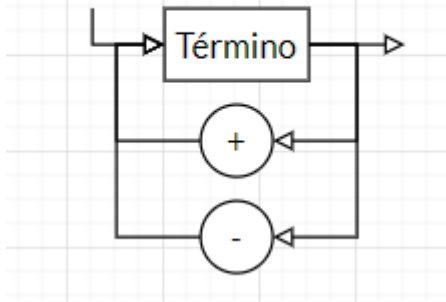
Equal \rightarrow <Compare>
| <Compare> == <Compare>
| <Compare> != <Compare>



Compare \rightarrow <Exp>
| <Exp> > <Exp>
| <Exp> < <Exp>
| <Exp> >= <Exp>

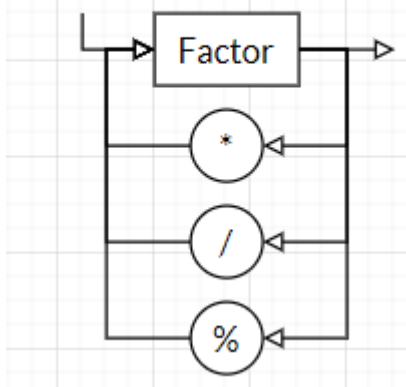
| <Exp> <= <Exp>

<Exp>



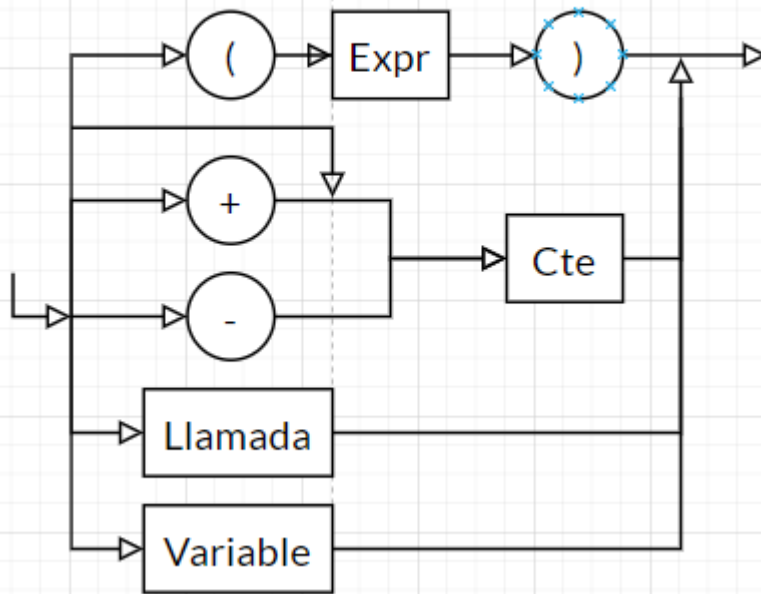
Exp \rightarrow <Termino>
| <Termino> + <Exp>
| <Termino> - <Exp>

<Término>



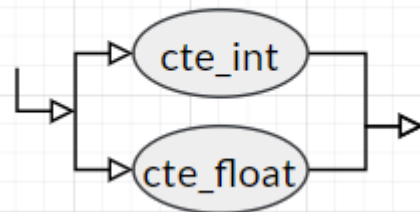
Termino \rightarrow <Factor>
| <Factor> * <Termino>
| <Factor> / <Termino>
| <Factor> % <Termino>

<Factor>



Factor → <Variable>
| (<Expr>)
| <Llamada>
| <Cte>
| + <Cte>
| - <Cte>

<Cte>



<Cte> → <Cte_int> | <Cte_float>