

GRAMÁTICA CON NOTACIÓN BNF

<INICIO> ::= <INSTRUCCIONES>

<INSTRUCCIONES> ::= <INSTRUCCIONES> <INSTRUCCION>
| <INSTRUCCION>

<INSTRUCCION> ::= <PRINTLN> ";"
| <DECLARACION> ";"
| <ASIGNACION> ";"
| <INCREMENTO_DECREMENTO> ";"
| <SENTENCIA_IF>
| <SENTENCIA_MATCH>
| <SENTENCIA_WHILE>
| <SENTENCIA_FOR>
| <SENTENCIA_DO_WHILE> ";"
| <SENTENCIA_BREAK> ";"
| <SENTENCIA_CONTINUE> ";"
| error ";"
| error

<EXPRESION> ::= "-" <EXPRESION> %prec UMENOS
| <CASTEO>
| <EXPRESION> "*" <EXPRESION> %prec POT
| <EXPRESION> "*" <EXPRESION>
| <EXPRESION> "/" <EXPRESION>
| <EXPRESION> "%" <EXPRESION>
| <EXPRESION> "+" <EXPRESION>
| <EXPRESION> "-" <EXPRESION>
| "(" <EXPRESION> ")"
| <EXPRESION> "==" <EXPRESION> %prec IGLCN
| <EXPRESION> "!=" <EXPRESION> %prec DIF
| <EXPRESION> "<" <EXPRESION>
| <EXPRESION> "<=" <EXPRESION> %prec MENOR_IGUAL
| <EXPRESION> ">" <EXPRESION>
| <EXPRESION> ">=" <EXPRESION> %prec MAYOR_IGUAL
| "!" <EXPRESION>
| <EXPRESION> "^" <EXPRESION>
| <EXPRESION> "&&" <EXPRESION>
| <EXPRESION> "||" <EXPRESION>
| <ENTERO>
| <DECIMAL>
| "CADENA"
| "CHARACTER"
| "true"
| "false"
| <ID>

<ENTERO> ::= <DIGITOS>

<DECIMAL> ::= <ENTERO> "." <ENTERO>

<DIGITOS> ::= <DIGITOS> <DIGITO> | <DIGITO>

<DIGITO> ::= "0" | "1" | "2" | "3" | "4" | "5" | "6" | "7" | "8" | "9"

<ID> ::= <LETRA> <ID_AUX>

<ID_AUX> ::= <ID_AUX_2> <ID_AUX> | ""

<ID_AUX_2> ::= <LETRA> | <DIGITO> | "_"

<LETRA> ::= "a" | "b" | "c" | "d" | "e" | "f" | "g" | "h" | "i" | "j" | "k" | "l" | "m" | "n" | "o" | "p" | "q" | "r" |
"s" | "t" | "u" | "v" | "w" | "x" | "y" | "z" | "A" | "B" | "C" | "D" | "E" | "F" | "G" | "H" | "I" | "J" | "K" | "L" |
"M" | "N" | "O" | "P" | "Q" | "R" | "S" | "T" | "U" | "V" | "W" | "X" | "Y" | "Z"

<TIPO> ::= "int"
| "double"
| "bool"
| "char"
| "String"

<MUTABILIDAD> ::= "const"
| "var"

<DECLARACION> ::= <MUTABILIDAD> <ID> ":" <TIPO>
| <MUTABILIDAD> <ID> ":" <TIPO> "=" <EXPRESION>

<ASIGNACION> ::= <ID> "=" <EXPRESION>

<CASTEO> ::= "(" <TIPO> ")" <EXPRESION> %prec CASTEO_PREC

<INCREMENTO_DECREMENTO> ::= <ID> "++"
| <ID> "--"

<PRINTLN> ::= "println" "(" <EXPRESION> ")"

<SENTENCIA_IF> ::= "if" "(" <EXPRESION> ")" "{" <INSTRUCCIONES> "}"
| "if" "(" <EXPRESION> ")" "{" <INSTRUCCIONES> "}" "else" "{" <INSTRUCCIONES> "}"
| "if" "(" <EXPRESION> ")" "{" <INSTRUCCIONES> "}" "else" <SENTENCIA_IF>

<SENTENCIA_MATCH> ::= "match" <EXPRESION> "{" <CASOS_MATCH>
<DEFAULT_MATCH> "}"

| "match" <EXPRESION> "{" <CASOS_MATCH> "}"
| "match" <EXPRESION> "{" <DEFAULT_MATCH> "}"

<CASOS_MATCH> ::= <CASOS_MATCH> <CASO_MATCH>

| <CASO_MATCH>

<CASO_MATCH> ::= <EXPRESION> "=>" "{" <INSTRUCCIONES> "}"

<DEFAULT_MATCH> ::= " _ "=>" "{" <INSTRUCCIONES> "}"

<SENTENCIA_WHILE> ::= "while" "(" <EXPRESION> ")" "{" <INSTRUCCIONES> "}"

<SENTENCIA_FOR> ::= "for" "(" <ASIGNACION> ";" <EXPRESION> ";" <ACTUALIZA_FOR>
")" "{" <INSTRUCCIONES> "}"

<ACTUALIZA_FOR> ::= <ASIGNACION>
| <INCREMENTO_DECREMENTO>

<SENTENCIA_DO_WHILE> ::= "do" "{" <INSTRUCCIONES> "}" "while" "(" <EXPRESION> ")"

<SENTENCIA_BREAK> ::= "break"

<SENTENCIA_CONTINUE> ::= "continue"