

Gramática proyecto final

PROGRAM -> DECLARATION

Declaraciones

DECLARATION -> CLASS_DECL DECLARATION
-> FUN_DECL DECLARATION
-> VAR_DECL DECLARATION
-> STATEMENT DECLARATION
-> ϵ

CLASS_DECL -> **class id** CLASS_INHER { FUNCTIONS }

CLASS_INHER -> **< id**
 ϵ

FUN_DECL -> **fun** FUNCTION

VAR_DECL -> **var id** VAR_INIT ;

VAR_INIT -> = EXPRESSION
-> **ϵ**

Sentencias

STATEMENT -> EXPR_STMT
-> FOR_STMT
-> IF_STMT
-> PRINT_STMT
-> RETURN_STMT
-> WHILE_STMT
-> BLOCK

EXPR_STMT -> EXPRESSION ;

FOR_STMT -> **for (** FOR_STMT_1 FOR_STMT_2 FOR_STMT_3 **)** STATEMENT

FOR_STMT_1 -> VAR_DECL
-> EXPR_STMT

	->	;
FOR_STMT_2	->	EXPRESSION;
	->	;
FOR_STMT_3	->	EXPRESSION
	->	ϵ
IF_STMT	->	if (EXPRESSION) STATEMENT ELSE_STATEMENT
ELSE_STATEMENT	->	else STATEMENT
	->	ϵ
PRINT_STMT	->	print EXPRESSION ;
RETURN_STMT	->	return RETURN_EXP_OPC ;
RETURN_EXP_OPC	->	EXPRESSION
	->	ϵ
WHILE_STMT	->	while (EXPRESSION) STATEMENT
BLOCK	->	{ BLOCK_DECL }
BLOCK_DECL	->	DECLARATION BLOCK_DECL
	->	ϵ

Expresiones

EXPRESSION	->	ASSIGNMENT
ASSIGNMENT	->	LOGIC_OR ASSIGNMENT_OPC
ASSIGNMENT_OPC	->	= EXPRESSION
	->	ϵ
LOGIC_OR	->	LOGIC_AND LOGIC_OR_2
LOGIC_OR_2	->	or LOGIC_AND LOGIC_OR_2
	->	ϵ

LOGIC_AND	-> EQUALITY LOGIC_AND_2
LOGIC_AND_2	-> and EQUALITY LOGIC_AND_2 -> ε
EQUALITY	-> COMPARISON EQUALITY_2
EQUALITY_2	-> != COMPARISON EQUALITY_2 -> == COMPARISON EQUALITY_2 -> ε
COMPARISON	-> TERM COMPARISON_2
COMPARISON_2	-> > TERM COMPARISON_2 -> >= TERM COMPARISON_2 -> < TERM COMPARISON_2 -> <= TERM COMPARISON_2 -> ε
TERM	-> FACTOR TERM_2
TERM_2	-> - FACTOR TERM_2 -> + FACTOR TERM_2 -> ε
FACTOR	-> UNARY FACTOR_2
FACTOR_2	-> / UNARY FACTOR_2 -> * UNARY FACTOR_2 -> ε
UNARY	-> ! UNARY -> - UNARY -> CALL
CALL	-> PRIMARY CALL_2
CALL_2	-> (ARGUMENTS_OPC) CALL_2

	->	. id CALL_2
	->	ε
CALL_OPC	->	CALL .
		ε
PRIMARY	->	true
	->	false
	->	null
	->	this
	->	number
	->	string
	->	id
	->	(EXPRESSION)
	->	super . id

Otras

FUNCTION	->	id (PARAMETERS_OPC) BLOCK
FUNCTIONS	->	FUNCTION FUNCTIONS
	->	ε
PARAMETERS_OPC	->	PARAMETERS
	->	ε
PARAMETERS	->	id PARAMETERS_2
PARAMETERS_2	->	, id PARAMETERS_2
	->	ε
ARGUMENTS_OPC	->	ARGUMENTS
	->	ε
ARGUMENTS	->	EXPRESSION ARGUMENTS_2
ARGUMENTS_2	->	, EXPRESSION ARGUMENTS_2
	->	ε