

Diseño de compiladores

Proyecto N°2

Campus Santa Fe

Enrique Lira Martínez A01023351

Profesor: Dr. Víctor Manuel de la Cueva H

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Gramática utilizada para parser

- → program -> declaration-list
- → declaration-list ->declaration | declaration declaration-list
- → declaration -> var-declaration | fun-declaration
- → var-declaration -> type-specifier ID; | type-specifier ID [NUM];
- → type-specifier -> int | void
- → fun-declaration -> type-specifier ID (params) compound-stmt
- → param-list -> param param-list'
- → param -> type-specifier ID | type-specifier ID []
- → compount-stmt -> { local-declarations statement-list }
- → local-declarations -> empty | var-declaration local-declarations
- → statement-list -> empty | statement statement-list
- → statement -> expression-stmnt | compound-stmt | selection-stmt | iteration-stmt | return stmt
- → expression-stmnt -> expression ; | ;
- → selection-stmt -> if (expression) statement | if (expression) statement else statement
- → iteration-stmt -> while (expression) statement
- → return-stmt -> return; | return expression;
- → expression -> var = expression | simple-expression
- → var -> ID | ID [expression]
- → simple-expression -> additive expression relop additive-expression | additive expression
- → relop -> <= | < | > | >= | == | !=
- → additive-expression -> term additive-expression'
- → additive-expression' -> addop term additive-expression' | empty
- → addop -> + | -
- → term -> factor | term'
- → term' -> empty | mulop factor term'
- → mulop * | /
- → factor -> (expression) | var | call | NUM
- → call -> ID (args)
- → args -> arg-list | empty
- → arg-list -> expression arg-list'