Tec de Monterrey

José Fernando Dávila Orta

A00999281

Homework 3 MyLittleDuck2017

Expresiones Regulares

* **EXPRESSION**: <|>|<>
* **EXP**: \+|-
* **TERM**: \\*|\/
* **INT**: [-]?[0-9]+
* **FLOAT**: [-]?[0-9]+.[0-9]+
* **IDENTIFIER**: [a-zA-Z](\_?[a-zA-Z0-9]+)\*
* **WRITING**: print
* **CONDITION**: if|else
* **ASSIGNATION**: =|:
* **STRINGS**: \'(\'\'|[^\'eol])\*\'
* **SEPARATOR**: (|)|{|}|;| |\n|\t
* **TYPE**: int|float
* **PROGRAM**: program
* **VAR**: var

PROGRAMA -> **PROGRAM** **IDENTIFIER**; PVAR  
PVAR -> BLOQUE  
PVAR -> VARS BLOQUE

VARS -> **VAR** V1  
V1 -> **IDENTIFIER** V2  
V2 -> , V1 | **TYPE**; | **TYPE**; V1

TIPO -> **TYPE**

ESTATUTO -> ASIGNACION | CONDICION | ESCRITURA

ASIGNACION -> **IDENTIFIER** = EXPRESION ;

EXPRESION -> EXP1 | EXP1 E1  
E1 -> **EXPRESSION** EXP1

EXP1 -> TERMINO | TERMINO EX1  
EX1 -> **EXP** EXP1

TERMINO -> FACTOR | FACTOR T1  
T1 -> **TERM** TERMINO

VAR -> **IDENTIFIER** | **INT** | **FLOAT**

CONDICION -> IF ( EXPRESION ) BLOQUE C1  
C1 -> ELSE BLOQUE ; | ;

BLOQUE -> { B1  
B1 -> ESTATUTO B1 | }

ESCRITURA -> **WRITING** ( E1 ) ;  
E1 -> EXPRESION | EXPRESION E2| **STRINGS** E2 | **STRINGS**E2 -> , E1

FACTOR -> ( EXPRESION ) | F1  
F1 -> VAR | **EXP** VAR