Gramática da linguagem PasC Corrigida

Obs.: Para uma melhor observação os terminais serão marcados com negrito.

prog → "**program**" "**id**" body

body → decl-list "**{**" stmt-list "**}**"

decl-list → decl "**;**" decl-list | **ε**

decl → type id-list

type → "**num**" | "**char**"

id-list → "**id**" id-list'

id-list' → "**,**" id-list | **ε**

stmt-list → stmt "**;**" stmt-list | **ε**

stmt → assign-stmt | if-stmt | while-stmt | read-stmt | write-stmt

assign-stmt → "**id**" "**=**" simple_expr

if-stmt → "**if**" "**(**" condition "**)**" "**{**" stmt-list "**}**" if-stmt'

if-stmt' → "**else**" "**{**" stmt-list "**}**" | **ε**

condition → expression

while-stmt → stmt-prefix "**{**" stmt-list "**}**"

stmt-prefix → "**while**" "**(**" condition "**)**"

read-stmt → "**read**" "**id**"

write-stmt → "**write**" writable

writable → simple-expr | "**literal**"

expression → simple-expr expression'

expression' → relop simple-expr | **ε**

simple-expr → term simple-expr'

simple-expr' → addop term simple-expr' | **ε**

term → factor-a term'

term' → mulop factor-a term' | **ε**

factor-a → factor | "**not**" factor

factor → "**id**" | constant | "**(**" expression "**)**"

relop → "**==**" | "**>**" | "**>=**" | "**<**" | "**<=**" | "**!=**"

addop → "+" | "**-**" | "**or**"

mulop → "***" | "*/*" | "**and**"

constant → "**num_const**" | "**char_const**"