

Gramatica tipo 2 para analizador sintactico de LPS  
(Lenguaje de Programacion Sencillo)

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G=<ET, EN, S, P>

ET= {PROG, IDENT, IN, OUT, LOCAL, PUNTOCOMA, TIPO,  
COMA, ABRELLAVE, CIERRALLAVE, ASOP, IF, THEN,  
ENDIF, CLOG, CENT, MAS, PAREN,  
TESIS, IGUALQUE}

EN= {<Prog>, <In>, <Out>, <Local>, <LDecl>, <Decl>, <Lvar>,  
<Body>, <Sent>, <SentSimp>, <Assign>, <Cond>, <Exp>}

S= <Prog>

P={  
<Prog> -> PROG IDENT <In> <Out> <Local> <Body>  
| PROG IDENT <In> <Out> <Body> ,

<In> -> IN <LDecl> ,

<Out> -> OUT <LDecl> ,

<Local> -> LOCAL <LDecl> ,

<LDecl> -> <Decl> PUNTOCOMA  
| <Decl> PUNTOCOMA <LDecl> ,

<Decl> -> TIPO <Lvar> ,

<Lvar> -> IDENT  
| IDENT COMA <Lvar> ,

<Body> -> ABRELLAVE <Sent> CIERRALLAVE ,

<Sent> -> <SentSimp> PUNTOCOMA <Sent>  
| <SentSimp> PUNTOCOMA ,

<SentSimp> -> <Assign>  
| <Cond> ,

<Assign> -> IDENT ASOP <Exp> ,

<Cond> -> IF <Exp> THEN <Sent> ENDIF ,

<Exp> -> CLOG  
| CENT  
| IDENT  
| <Exp> MAS <Exp>  
| PAREN <Exp> TESIS  
| <Exp> IGUALQUE <Exp>  
}