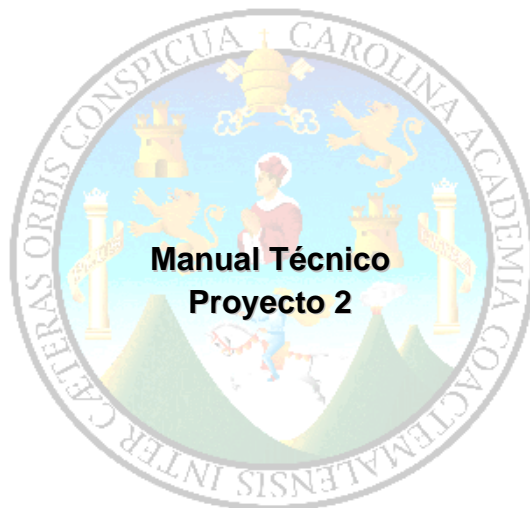


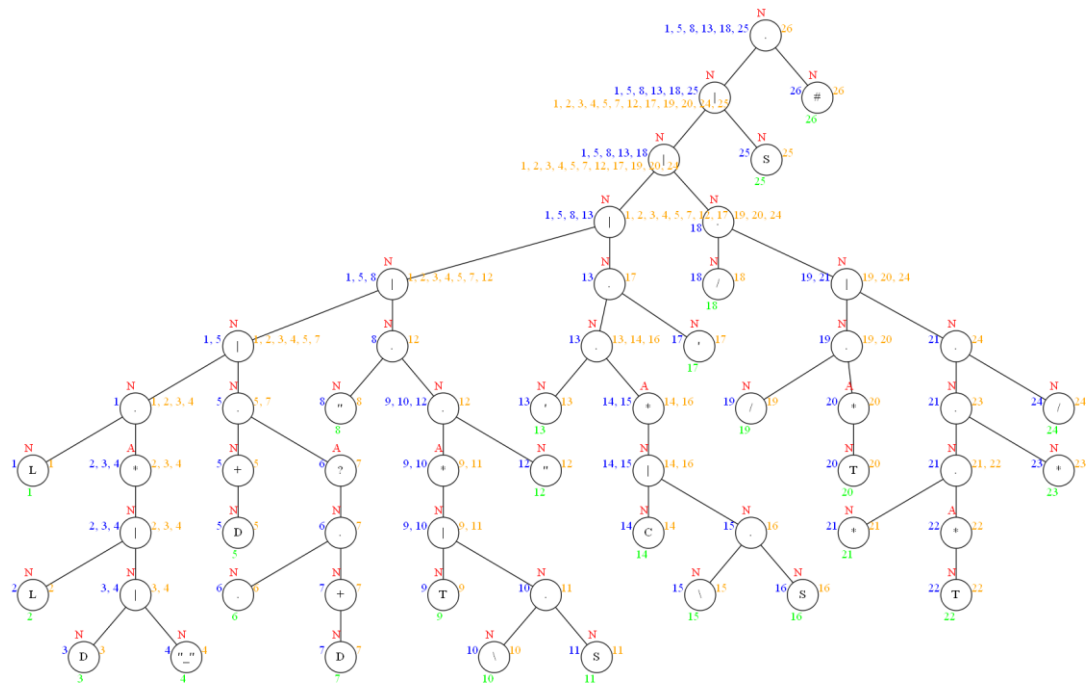
UNIVERSIDAD DE SAN CARLOS DE GUATEMALA  
FACULTAD DE INGENIERÍA  
ORG DE LENGUAJES Y COMPILADORES "A"



Nombre: Edwin Alfredo López Gómez  
Carné: 201314007  
Fecha: 22/05/2020

Árbol:

Arbol -- ER



## Tabla de Siguietes:

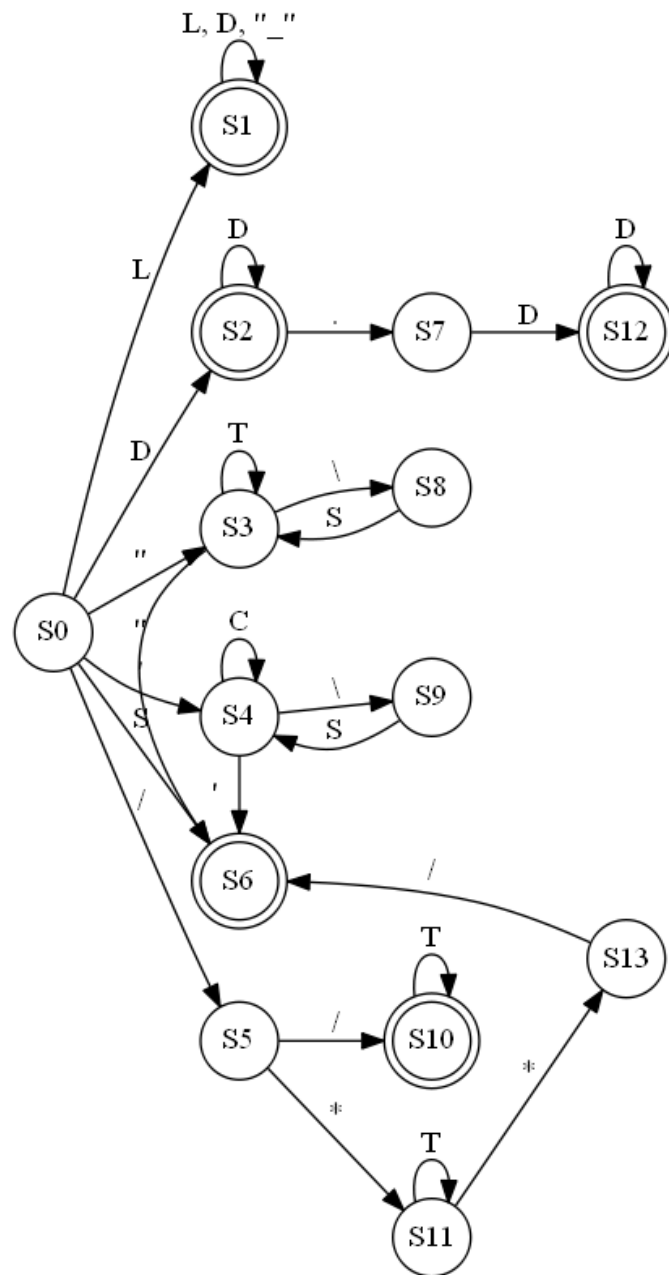
Tabla de Siguietes -- ER		
#	Simbolo	Siguietes
1	L	2, 3, 4, 26
2	L	2, 3, 4, 26
3	D	2, 3, 4, 26
4	" _ "	2, 3, 4, 26
5	D	5, 6, 26
6	\.	7
7	D	7, 26
8	\"	9, 10, 12
9	T	9, 10, 12
10	\	11
11	S	9, 10, 12
12	\"	26
13	\'	14, 15, 17
14	C	14, 15, 17
15	\	16
16	S	14, 15, 17
17	\'	26
18	/	19, 21
19	/	20, 26
20	T	20, 26
21	\*	22, 23
22	T	22, 23
23	\*	24
24	/	26
25	S	26
26	#	

### Tabla de Transiciones:

[illegible]

Autómata:

## Automata -- ER



# Gramatica Analisis Sintactico

S

: CLAIMP EOF

;

CLAIMP

: CLAIMPP

|

;

CLAIMPP

: CLAIMPP SINCLAIMP

| SINCLAIMP

;

SINCLAIMP

: tkRCla tkIde tkSLIaAbr MMFV tkSLIaCie

| tkRImp ESPIMP tkSPunCom

| error

;

ESPIMP

: ESPIMP tkSPun tkIde

| tkIde

;

// Funciones, Metodos, Variables Globales

MMFV

: MMFVP

|

;

MMFVP

: MMFVP SINMMFV

| SINMMFV

;

SINMMFV

```
: tkRVoi tkRMai tkSParAbr tkSParCie tkSLlaAbr INS tkSLlaCie
| tkRVoi tkIde tkSParAbr PAR tkSParCie tkSLlaAbr INS tkSLlaCie
| TIP tkIde tkSParAbr PAR tkSParCie tkSLlaAbr INS tkSLlaCie
| TIP DECVARMUL tkSPunCom
| error
;
```

INS

```
: INSP
|
;
```

INSP

```
: INSP SININS
| SININS
;
```

SININS

```
: TIP DECVARMUL tkSPunCom
| tkIde tkSigu EXP tkSPunCom
| tkRSis tkSPun tkROut tkSPun PRI tkSParAbr EXP tkSParCie tkSPunCom
| tkRIf tkSParAbr EXP tkSParCie tkSLlaAbr INS tkSLlaCie ELS
| tkRSwi tkSParAbr EXP tkSParCie tkSLlaAbr CAS tkSLlaCie
| tkRFor tkSParAbr DECASI tkSPunCom EXP tkSPunCom ASIINC tkSParCie tkSLlaAbr INS
tkSLlaCie
| tkRWhi tkSParAbr EXP tkSParCie tkSLlaAbr INS tkSLlaCie
| tkRDo tkSLlaAbr INS tkSLlaCie tkRWhi tkSParAbr EXP tkSParCie tkSPunCom
| tkRBre tkSPunCom
| tkRCon tkSPunCom
| tkRRet tkSPunCom
| tkRRet EXP tkSPunCom
| error
;
```

// asignacion

DECASI

```
: TIP tkIde tkSigu EXP
```

```
| tkIde tkSigu EXP  
;
```

ASIINC

```
: tkIde tkSigu EXP  
| EXP  
;
```

// else if y else

ELS

```
: tkREls SINELS  
|  
;
```

SINELS

```
: tkRIf tkSParAbr EXP tkSParCie tkSLIaAbr INS tkSLIaCie ELS  
| tkSLIaAbr INS tkSLIaCie  
;
```

// case

CAS

```
: CASP  
|  
;
```

CASP

```
: tkRCas EXP tkSDosPun INS CAS  
| tkRDef tkSDosPun INS  
;
```

// print

PRI

```
: tkRPri  
| tkRPriLn  
;
```



DECVARMUL

: SINVAR

| DECVARMUL tkSCom SINVAR

;

SINVAR

: tkIde

| tkIde tkSIgu EXP

;

EXP

: EXP tkSAnd EXP

| EXP tkSOr EXP

| EXP tkSDIgu EXP

| EXP tkSMay EXP

| EXP tkSMayIgu EXP

| EXP tkSMen EXP

| EXP tkSMenIgu EXP

| EXP tkSDif EXP

| EXP tkSMas EXP

| EXP tkSGui EXP

| EXP tkSPor EXP

| EXP tkSBarInc EXP

| EXP tkSPot EXP

| EXP tkSMod EXP

| tkSGui EXP %prec NEG

| tkSAdm EXP %prec NEG

| VAL tkSInc %prec NEG

| VAL tkSDec %prec NEG

| VAL

;

VAL

: tkNum

```
| tkDec
| tkCad
| tkCar
| tkRTru
| tkRFal
| tkIde
| tkIde tkSParAbr tkSParCie
| tkIde tkSParAbr LISEXP tkSParCie
| tkSParAbr EXP tkSParCie
;
```

```
LISEXP
: EXP
| LISEXP tkSCom EXP
;
```

```
// Declaracion Multiple de Parametros
PAR
: LIPAR
|
;
```

```
LIPAR
: TIP tkIde
| LIPAR tkSCom TIP tkIde
;
```

```
// terminales
TIP
: tkRInt
| tkRDou
| tkRCha
| tkRStr
| tkRBoo
;
```