

CENTRO UNIVERSITARIO DE OCCIDENTE
C.U.N.O.C
Lenguajes Formales y de Programacion
ING. Oliver Sierra



DOCUMENTACION PRACTICA 1

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Expresiones a Identificar

Identificador

L (L | D) *

[a-z | A-Z] [A-Z | a-z | 0-9]*

Entero

[D]+

[0-9]+

Decimal

[D]+ [.] [D]+

[0-9]+ [.] [0-9]+

Signos Puntuacion

[P]

[. | , | ; | :]

Signos Agrupacion

[A]

["(" | ")" | "{" | "}" | "[" | "]"]

Operadores Matematicos

[O]

["+" | "-" | "/" | "*" | "%"]

Espacios-Saltos

[E]

["E" | "\n"]

IDENTIFICADOR

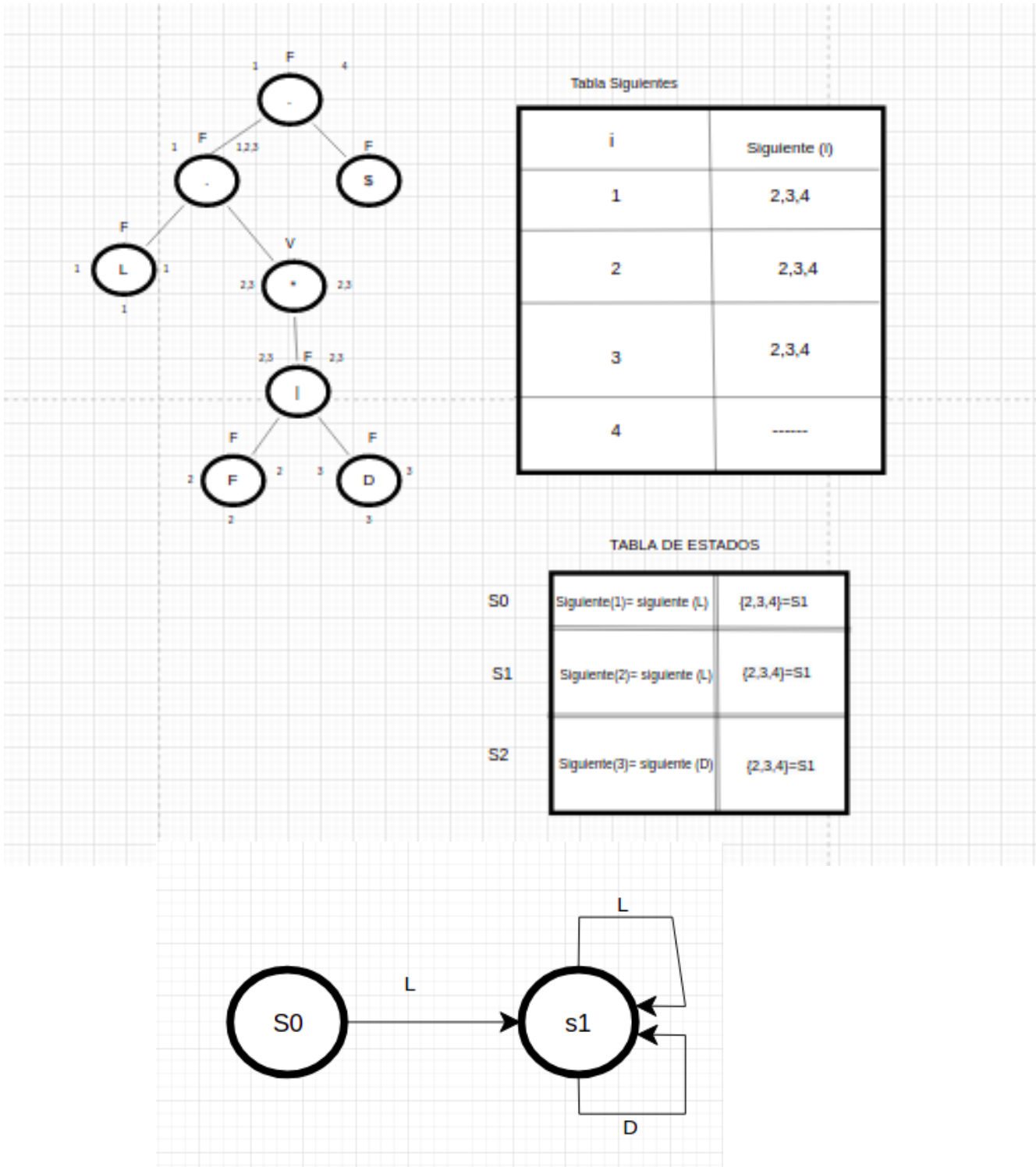


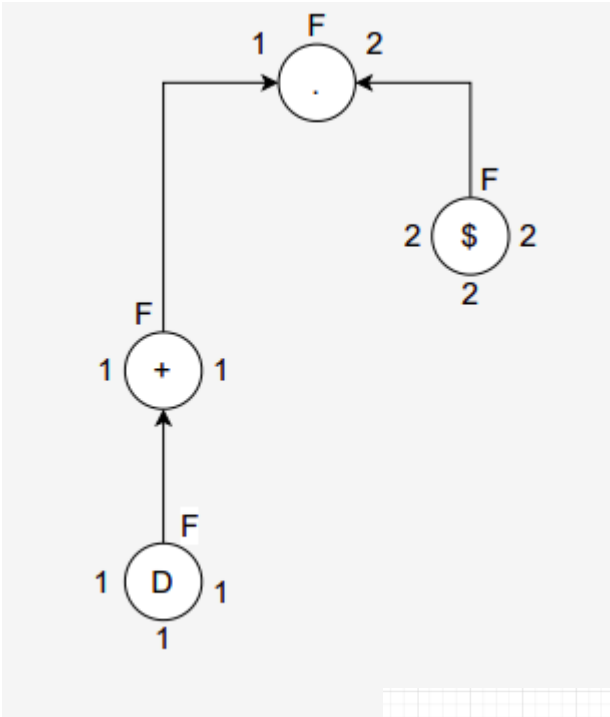
Tabla de Transicion

	L	D
S0	S1	-----
S1	S1	S1

$Q = \{S0, S1\}$
 $Q0 = \{S0\}$
 $E = [L, D] = \{(A-Z), (a-z), (0-9)\}$
 $F = \{S1\}$

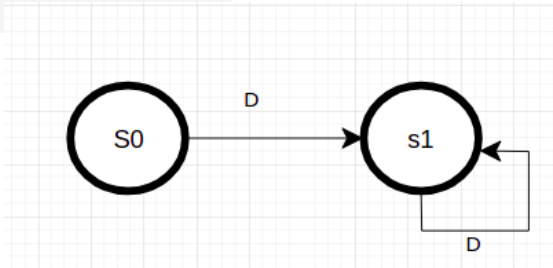
Gramatica Regular
 $S0 \rightarrow L S1$
 $S1 \rightarrow L S1$
 $S1 \rightarrow L S1$

NUMERO ENTERO



i	siguiente(i)
1	1,2
2	-----

Sigueinte(1)= D	{1,2}=s1
siguiente(2)=D	{1,2}=s1

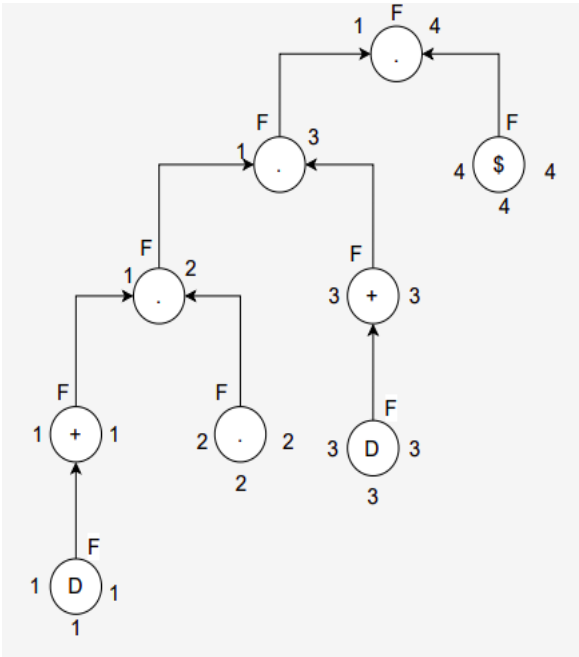


	D
S0	S1
S1	S1

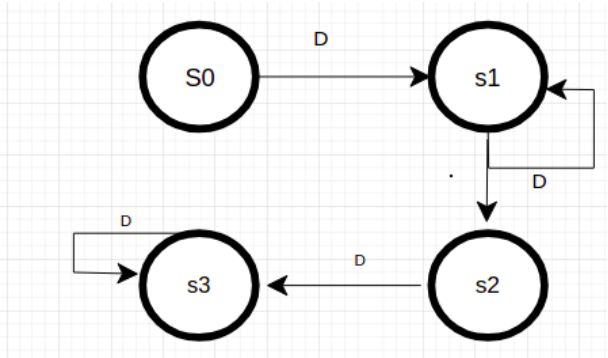
$Q = \{S0, S1\}$
 $Q0 = \{S0\}$
 $E = [D] = \{(0-9)\}$
 $F = \{S1\}$

Gramática Regular
 $S0 \rightarrow D S1$
 $S1 \rightarrow D S1$

NUMERO DECIMAL



i	siguiente(i)
1	1,2
2	3
3	3,4
4	-----
siguiente(1)=D	{1,2}=s1
siguiente(1)=D	{1,2}=s1
Sigueinte(2)=.	{3}=s2
siguiente(3)=D	{3,4}=s3
Siguiente(3)=D	{3,4}=s3

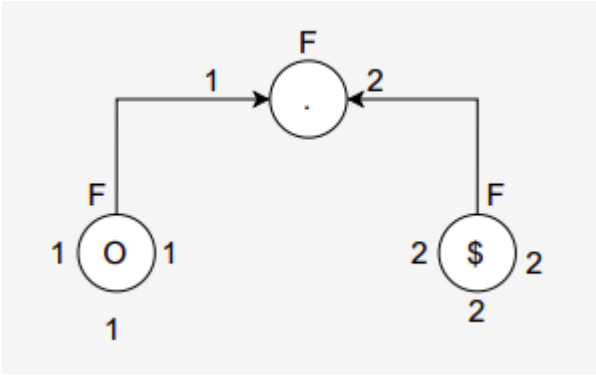


	D	.
S1	S2	-----
S2	S2	S3
S3	S4	-----
S4	S4	-----

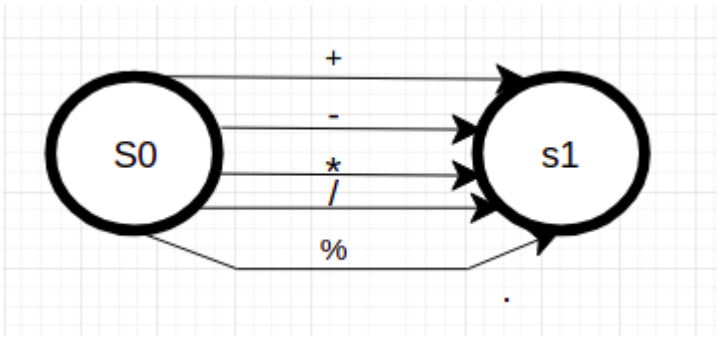
Q= {S0,S1,S2,S3}
Q0= {S0}
E= [D, .]= {(0-9) , ”.”}
F={S3}

Gramática Regular
S0--- D S1
S1--- D S1
S1---- . S2
S2---- D S3
S3---- D S3

OPERADORES



I	Siguiente (i)
1	2
2	-----
siguiente(1)=O	{2}=s1

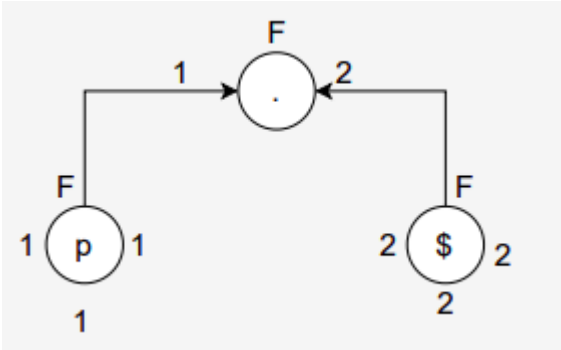


	*	+	-	/	%
S0	S1	S1	S1	S1	S1

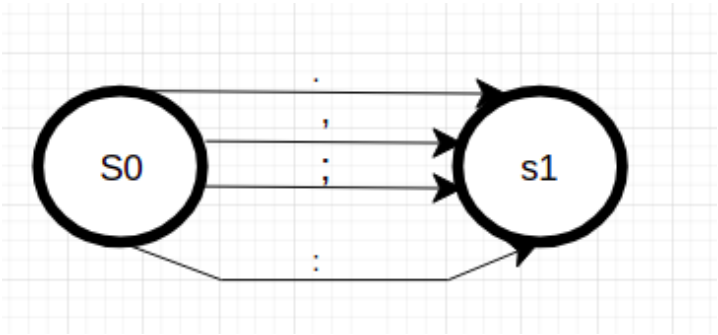
Q= {S0,S1}
Q0= {S0}
E={ ""," + "," -","/","%"}
F={S1}

Gramática Regular
S0--- D S1
S0--- + S1
S0---- - S1
S0---- * S1
S0---- / S1
S0---- % S1

SIGNOS DE PUNTUACION



I	Siguiente (i)
1	2
2	-----
siguiente(1)=O	{2}=s1

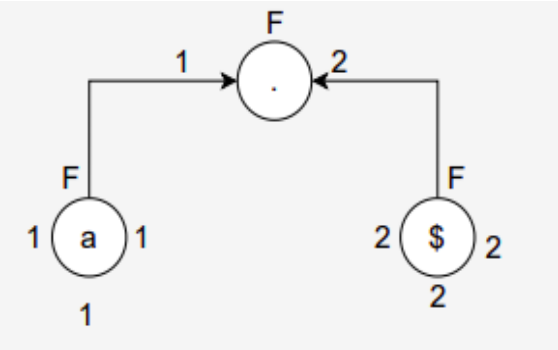


	.	,	;	:	Otro simoblo
S0	S1	S1	S1	S1	error

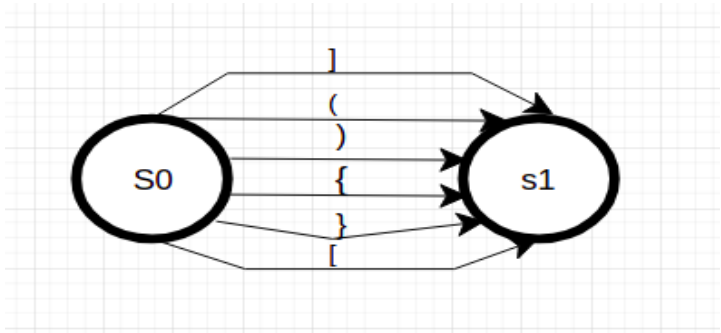
Q= {S0,S1}
Q0= {S0}
E={ ”,” , “ . ” ,” : ”,”;” ,}
F={S1}

Gramática Regular
S0--- . S1
S0— , S1
S0---- ; S1
S0---- : S1

SIGNOS DE AGRUPACION



I	Siguiente (i)
1	2
2	-----
siguiente(1)=O	{2}=s1

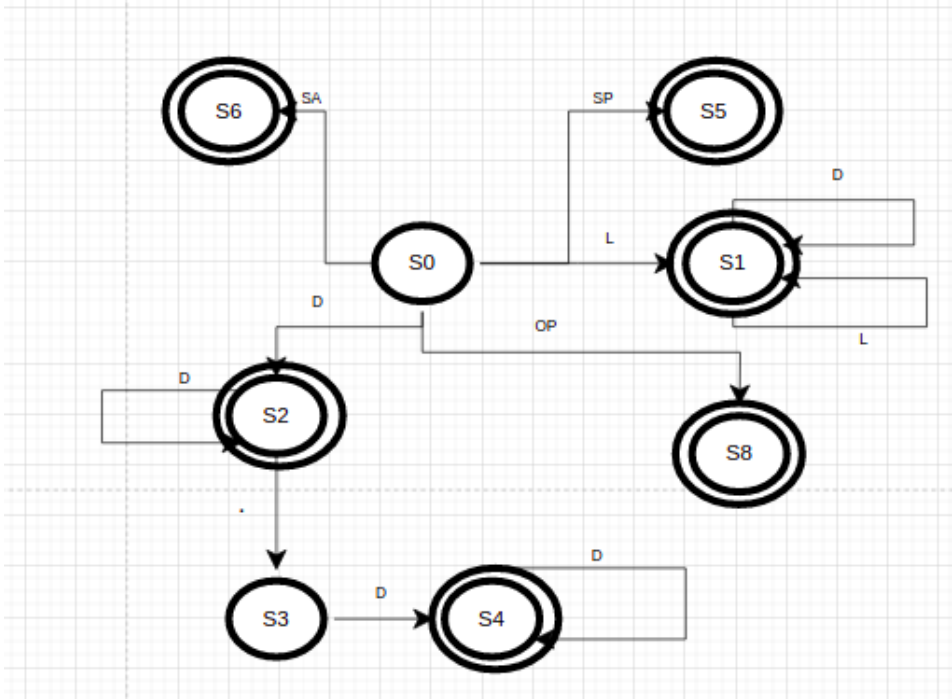


	()	[]	{
S0	S1	S1	S1	S1	S1

Q= {S0,S1}
Q0= {S0}
E={ "(", "(", "[", "]", "{", "}" }
F={S1}

Gramática Regular
S0--- (S1
S0---) S1
S0---- { S1
S0---- } S1
S0---- [S1
S0----] S1

Expresión General:



	L	D	OP	SA	SP	.	Otro simbolo
S0	S1	S2	S7	S6	S5	ERROR	E
S1	S1	S1	E	E	E	E	E
S2	E	S2	E	E	E	S3	E
S3	E	S4	E	E	E	E	E
S4	E	S4	E	E	E	E	E
S5	E	E	E	E	E	E	E
S6	E	E	E	E	E	E	E
S7	E	E	E	E	E	E	E

Gramática Regular

S0---L S1	S1---L S1	S2---L E	S3---L E
S0--- D S2	S1---D S1	S2---D S2	S3---D S4
S0 ---- OP S7	S1---OP E	S2---OP E	S3---OP E
S0 ---- SA S6	S1--- SA E	S2---SA E	S3---SA E
S0 ---- SP S5	S1---SP E	S2---SP E	S3---SP E
S0 ---- . E	S1---. E	S2---. S3	S3---. E
S0 ---- otroSimbolo E	S1---otroSimbolo E	S2---otroSimoblo E	S3---otroSimbolo E

S4---L E	S5---L E	S6---L E	S7---L E
S4--- D S4	S5---D S4	S6---D S2	S7---D S4
S4 ---- OP E	S5---OP E	S6---OP E	S7---OP E
S4 ---- SA E	S5--- SA E	S6---SA E	S7---SA E
S4 ---- SP E	S5---SP E	S6---SP E	S7---SP E
S4 ---- . E	S5---. E	S6---. S3	S7---. E
S4 ---- otroSimbolo E	S5---otroSimbolo E	S6---otroSImoblo E	S7---otroSimbolo E