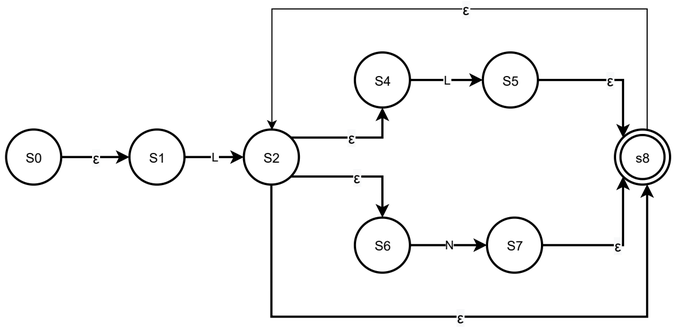
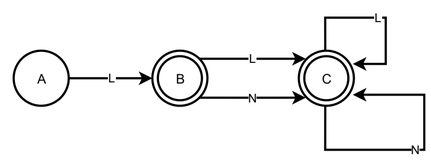
L = {(A-Z),(a-z)}
N = {0-9}

E.R de un Identificador: L(L | N)*



FT	ε	L	N
S0	S1=A	(A,L)=S2	(A,N)=
S2	S4,S6,S8=B	(B,L)=S5	(B,N)=S7
S5	S2,S4,S6,S8=C	(C,L)=S5	(C,N)=S7
S7	S2,S4,S6,S8=C		

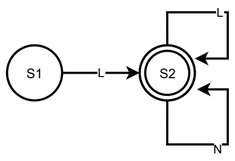
	L	N
A	B	
B	C	C
C	C	C



OPTIMIZACION DEL AFD IDENTIFICADOR

	Estados de no aceptacion	Estados de aceptacion	
Σ \ Q	A	B	C
L	B	C	C
N		C	C

	Estados de no aceptacion	Estados de aceptacion
Σ \ Q	S1={A}	S2={B,C}
L	S2	S2
N		S2

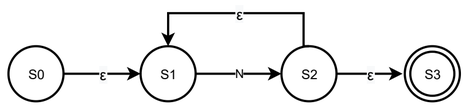


AFD de un indicador:
1. Q = { S1, S2 }
2. S1
3. Σ = { L,N }
4. F = { S2 }
5. Función de transición

∂(S1,L) = S2 ∂(S1,N) =
∂(S2,L) = S2 ∂(S2,N) = S2

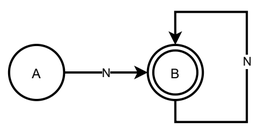
N = { (0-9) }

E.R de un Numero: N+



FT	ε	N
S0	S1=A	(A,N)=S2
S2	S1,S3=B	(B,N)=S2

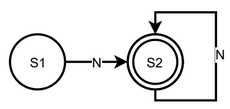
	N
A	B
B	B



OPTIMIZACION DEL AFD NUMERO

	Estados de no aceptacion	Estados de aceptacion
Σ \ Q	A	B
N	B	B

	Estados de no aceptacion	Estados de aceptacion
Σ \ Q	S1={A}	S2={B}
N	S2	S2

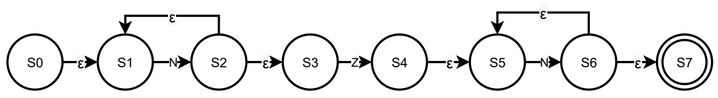


AFD de un Numero:
1. Q = { S1, S2 }
2. S1
3. Σ = { N }
4. F = { S2 }
5. Función de transición

∂(S1,N) =S2 ∂(S2,N) = S2

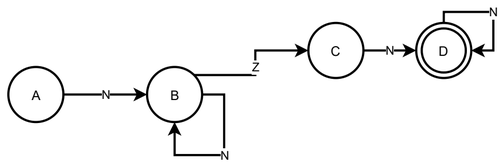
N = { (0-9) }
Z ={ . }

E.R de un Decimal: N+(Z)N+



FT	ε	N	Z
S0	S1=A	(A,N)=S2	(A, .)=
S2	S1,S3=B	(B,N)=S2	(B, .)=S4
S4	S5=C	(C,N)=S6	(C, .)=
S6	S5,S7=D	(D,N)= S6	(D, .)=

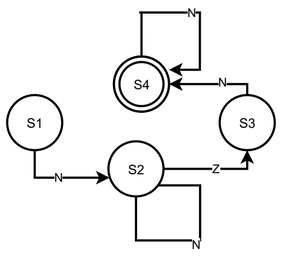
	N	Z
A	B	
B	B	C
C	D	
D	D	



OPTIMIZACION DEL AFD DECIMAL

	Estados de no aceptacion			Estados de aceptacion
Σ \ Q	A	B	C	D
N	B	B	D	D
Z		C		

	Estados de no aceptacion			Estados de aceptacion
Σ \ Q	S1={A}	S2={B}	S3={C}	S4={D}
N	S2	S2	S4	S4
Z		S3		

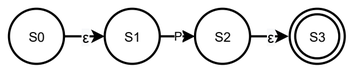


AFD de un Decimal:
1. Q = { S1, S2, S3, S4 }
2. S1
3. Σ = { Z ,N }
4. F = { S4 }
5. Función de transición

∂(S1,N) = S2 ∂(S1, .) =
∂(S2,N) = S2 ∂(S2, .) = S3
∂(S3,N) = S4 ∂(S3, .) =
∂(S4,N) = S4 ∂(S4, .) =

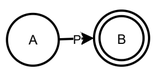
P= { . , , , ; , : }

E.R de Puntuación : P



FT	ε	P
S0	S1=A	(A,P)=S2
S2	S3=B	(B,P)=

	P
A	B
B	



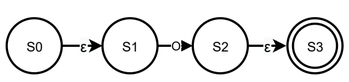
AFD de Puntuacion:

1. Q = { A,B }
2. A
3. Σ = { P }
4. F = { B }
5. Función de transición

∂(A,P) = B ∂(B, P) =

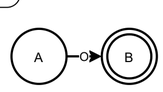
O= { + , - , / , * , % }

E.R de Operador : O



FT	ε	O
S0	S1=A	(A,O)=S2
S2	S3=B	(B,O)=

	O
A	B
B	



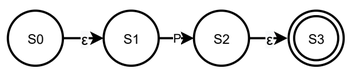
AFD de Operador:

1. Q = { A,B }
2. A
3. Σ = { O }
4. F = { B }
5. Función de transición

∂(A,O) = B ∂(B, O) =

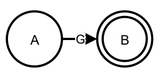
G= { (, { , [,] , } ,) }

E.R de Agrupación : G



FT	ε	G
S0	S1=A	(A,G)=S2
S2	S3=B	(B,G)=

	G
A	B
B	

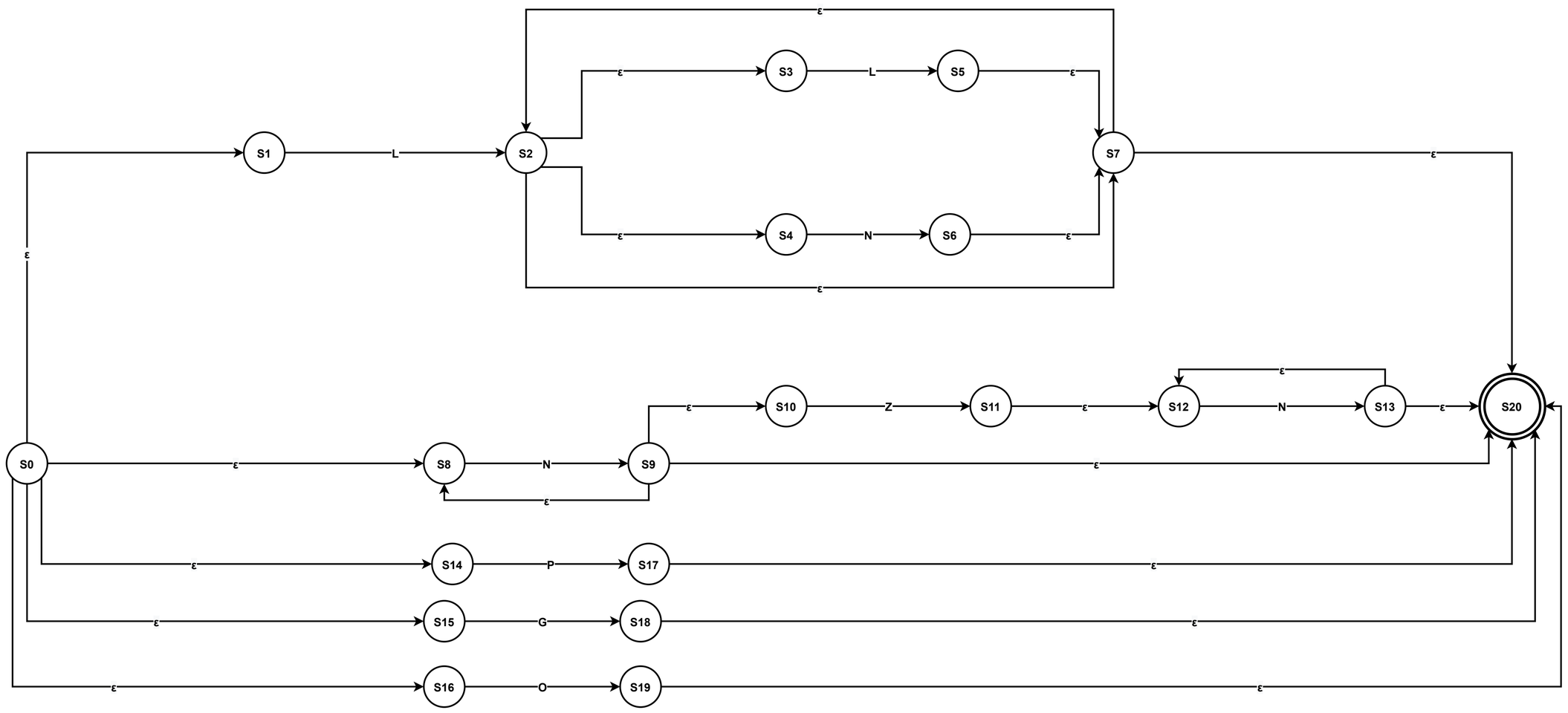


AFD de Agrupacion:

1. Q = { A,B }
2. A
3. Σ = { G }
4. F = { B }
5. Función de transición

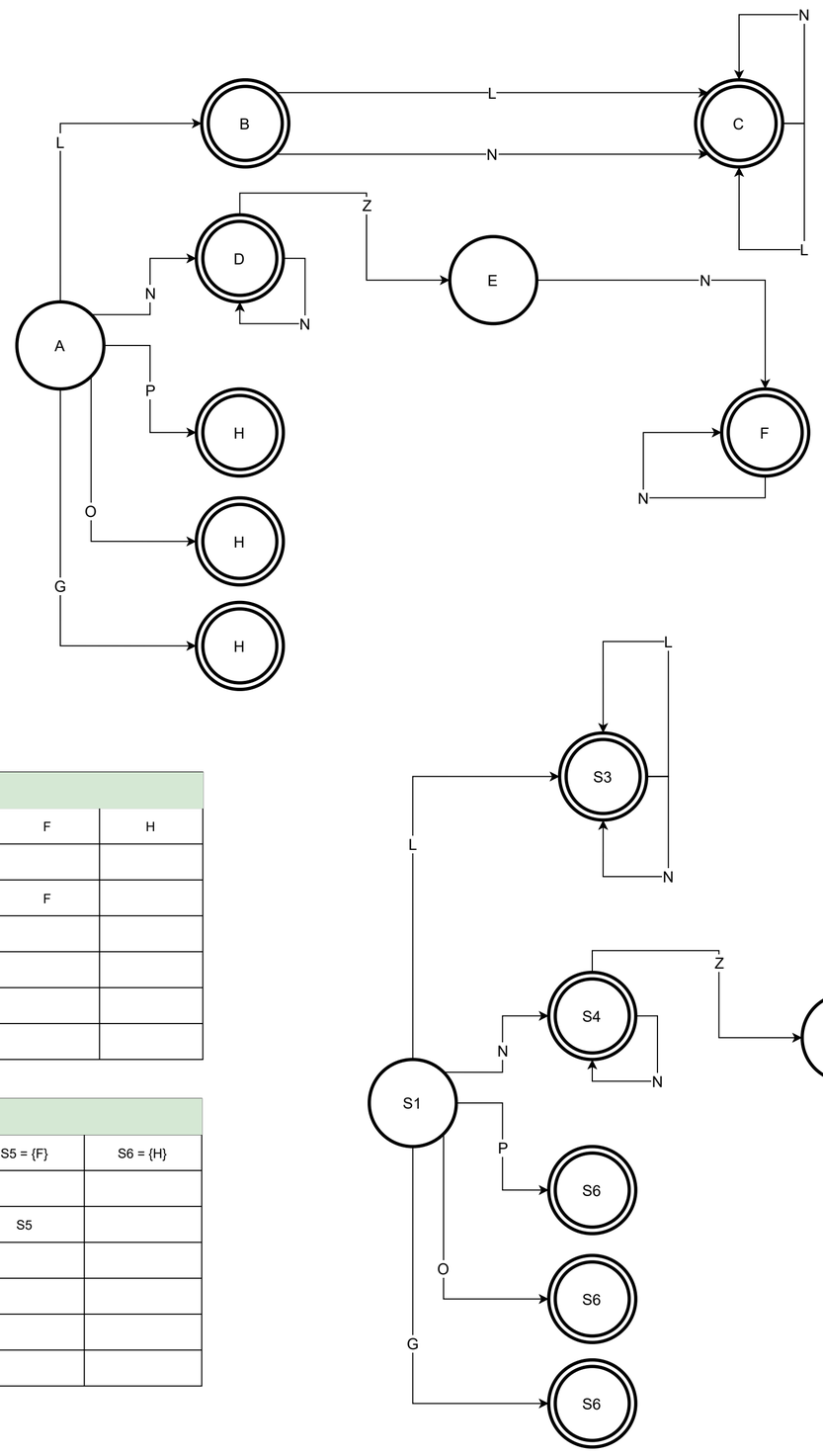
∂(A,G) = B ∂(B, G) =

L = {(A-Z),(a-z)}
N = {0-9}
G = { (,) , [,] , { , } }
O = { + , - , * , / , % }
P = { , , . , : , ; }
Z = { . }
E.R = { [L (L | N)*] | [N +(E | ZN+)] | P | G | O }



FT	Ɛ	L	N	Z	P	G	O
SO	S1 , S8 , S14 , S15 ,S16 = A	(A, L) = S2	(A , N) = S9	(A , Z) =	(A , P) = S17	(A , G) = S18	(A , O) = S19
S2	S3 , S4 , S7 , S20 = B	(B , L) = S5	(B , N) = S6	(B ,Z) =	(B ,P) =	(B , G) =	(B ,O) =
S5 ,S6	S7,S2 ,S3 , S4 ,S20 = C	(C , L) = S5	(C , N) = S6	(C ,Z) =	(C , P) =	(C ,G) =	(C ,O) =
S9	S8 , S10 , S20 = D	(D , L) =	(D , N) = S9	(D , Z) = S11	(D , P) =	(D , G) =	(D , O) =
S11	S12 = E	(E , L) =	(E , N) = S13	(E , Z) =	(E , P) =	(E , G) =	(E , O) =
S13	S12 , S20 = F	(F , L) =	(F , N) = S13	(F , Z) =	(F , P) =	(F , G) =	(F , O) =
S17	S20 = H	(H ,L) =	(H , N) =	(H , Z) =	(H ,P) =	(H ,G) =	(H , O) =
S18	S20 = H	(H ,L) =	(H , N) =	(H , Z) =	(H ,P) =	(H ,G) =	(H , O) =
S19	S20 = H	(H ,L) =	(H , N) =	(H , Z) =	(H ,P) =	(H ,G) =	(H , O) =

	L	N	Z	P	G	O
A	B	D	-	H	H	H
B	C	C	-	-	-	-
C	C	C	-	-	-	-
D	-	D	E	-	-	-
E	-	F	-	-	-	-
F	-	F	-	-	-	-
H	-	-	-	-	-	-



	No aceptacion		aceptacion				
Σ \ Q	A	E	B	C	D	F	H
L	B		C	C			
N	D	F	C	C	D	F	
Z					E		
P	H						
O	H						
G	H						

	No aceptacion		aceptacion			
Σ \ Q	S1 = {A}	S2 = {E}	S3 = {B ,C}	S4 = {D}	S5 = {F}	S6 = {H}
L	S3		S3			
N	S4	S5	S3	S4	S5	
Z				S2		
P	S6					
O	S6					
G	S6					

1. Q = {S1 ,S2 ,S3 ,S4 ,S5 ,S6 }
2. S2
3. Σ = { L , N ,Z , P , O ,G}
4. F = {S3 , S4 ,S5 ,S6}

∂ (S1, L) = S3 ∂ (S1, N) = S4 ∂ (S1 ,Z) = ∂ (S1, P) = S6 ∂ (S1, O) = S6 ∂ (S1, G) = S6
∂ (S2, L) = ∂ (S2, N) = S5 ∂ (S2 ,Z) = ∂ (S2, P) = ∂ (S2, O) = ∂ (S2, G) =
∂ (S3, L) =S3 ∂ (S3, N) = S3 ∂ (S3 ,Z) = ∂ (S3, P) = ∂ (S3, O) = ∂ (S3, G) =
∂ (S4, L) = ∂ (S4, N) = S4 ∂ (S4 ,Z) =S2 ∂ (S4, P) = ∂ (S4, O) = ∂ (S4, G) =
∂ (S5, L) = ∂ (S5, N) = S5 ∂ (S5 ,Z) = ∂ (S5, P) = ∂ (S5, O) = ∂ (S5, G) =
∂ (S6, L) = ∂ (S6, N) = ∂ (S6 ,Z) = ∂ (S6, P) = ∂ (S6, O) = ∂ (S6, G) =