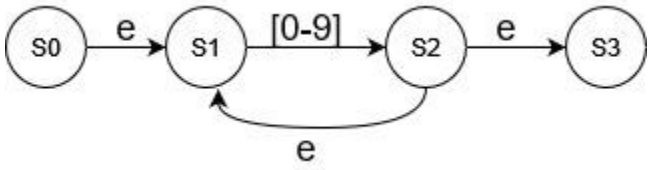
Expresión Regular – Número Entero

- [0-9]+



Método de Thompson

FT	S	[0 -9]
S0	{S1} = **A**	(A, [0-9]) = S2 = B
S2	{S3, S1} = **B**	(B, [0 - 9]) = S2 = B

Tabla de Transiciones δ

	B = [0-9]
A	B
B	B

S0([0-9]) = S1	S0(ε) = {}
S1([0-9]) = S1	S1(ε) = {}

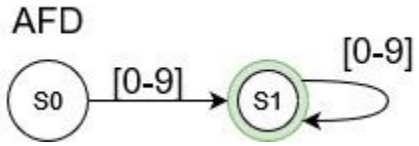
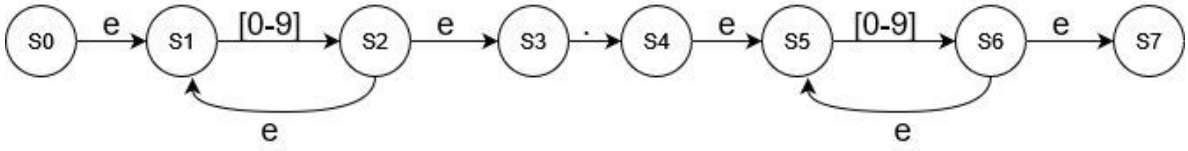


Diagrama del AFD

Expresión Regular – Números Decimales

- ([0-9]+ . [0.9]+)



Método de Thompson

FT	S	[0-9]	.
S0	{S1} = **A**	(A, [0-9]) = S2 = B	(A, .) = {}
S2	{S3, S1} = **B**	(B, [0-9]) = S2 = B	(B, .) = S4 = C
S4	{S5} = **C**	(C, [0-9]) = S6 = D	(C, .) = {}
S6	{S7, S5} = **D**	(D, [0-9]) = S6 = D	(D, .) = {}

Tabla de Transiciones δ

	B	C	D
A	B		
B	B	C	
C			D
D			D

S0([0-9]) = S1	S0(.) = {}
S1([0-9]) = S1	S1(.) = S2
S2([0-9]) = S3	S2(.) = {}
S3([0-9]) = S3	S3(.) = {}

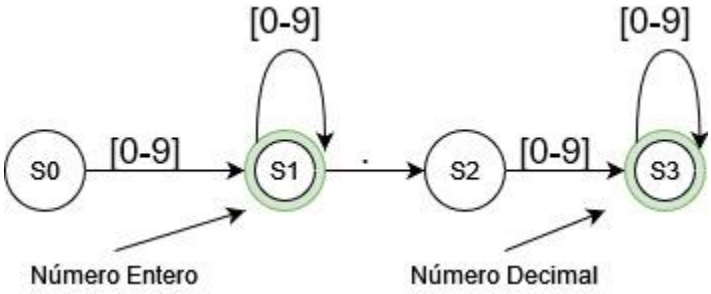
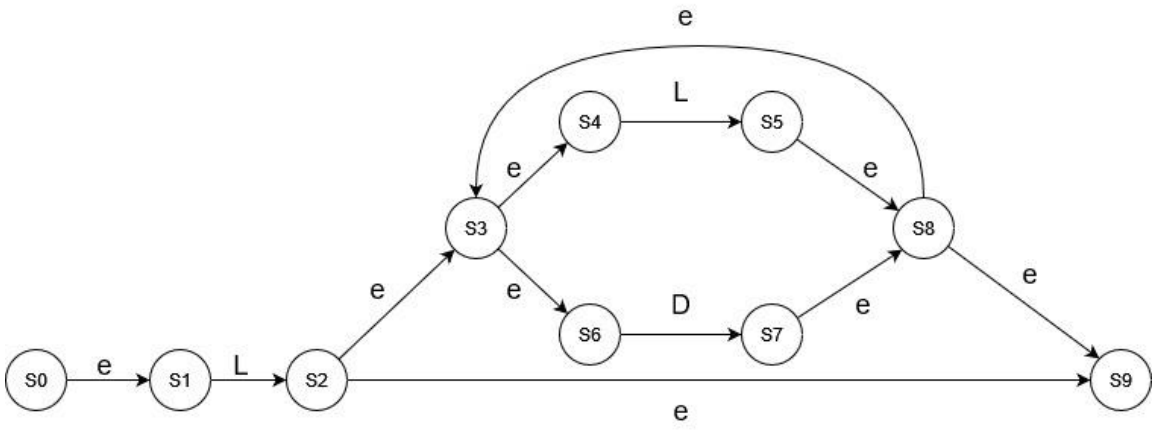


Diagrama del AFD

Expresión Regular – Identificador

- L (L | D)*



Método de Thompson

FT	S	L	D
S0	{S1} = **A**	(A, L) = S2 = B	(A, D) = {}
S2	{S3, S4, S6, S9} = **B**	(B, L) = S5 = C	(B, D) = S7 = D
S5	{S8, S9, S3, S4, S6} = **C**	(C, L) = S5 = C	(C, D) = S7 = D

Tabla de Transiciones δ

	B	C	D
A	B		
B		C	D
C		C	D

S0(L) = S1	S0(D) = {}
S1(L) = S2	S1(D) = S3
S2(L) = S2	S2(D) = {}
S3(L) = {}	S3(D) = S3

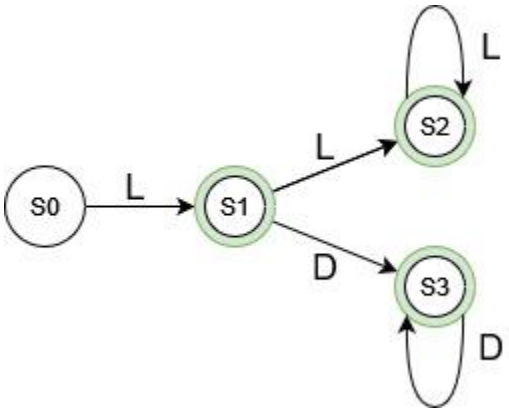


Diagrama del AFD

Autómata Finito Determinista

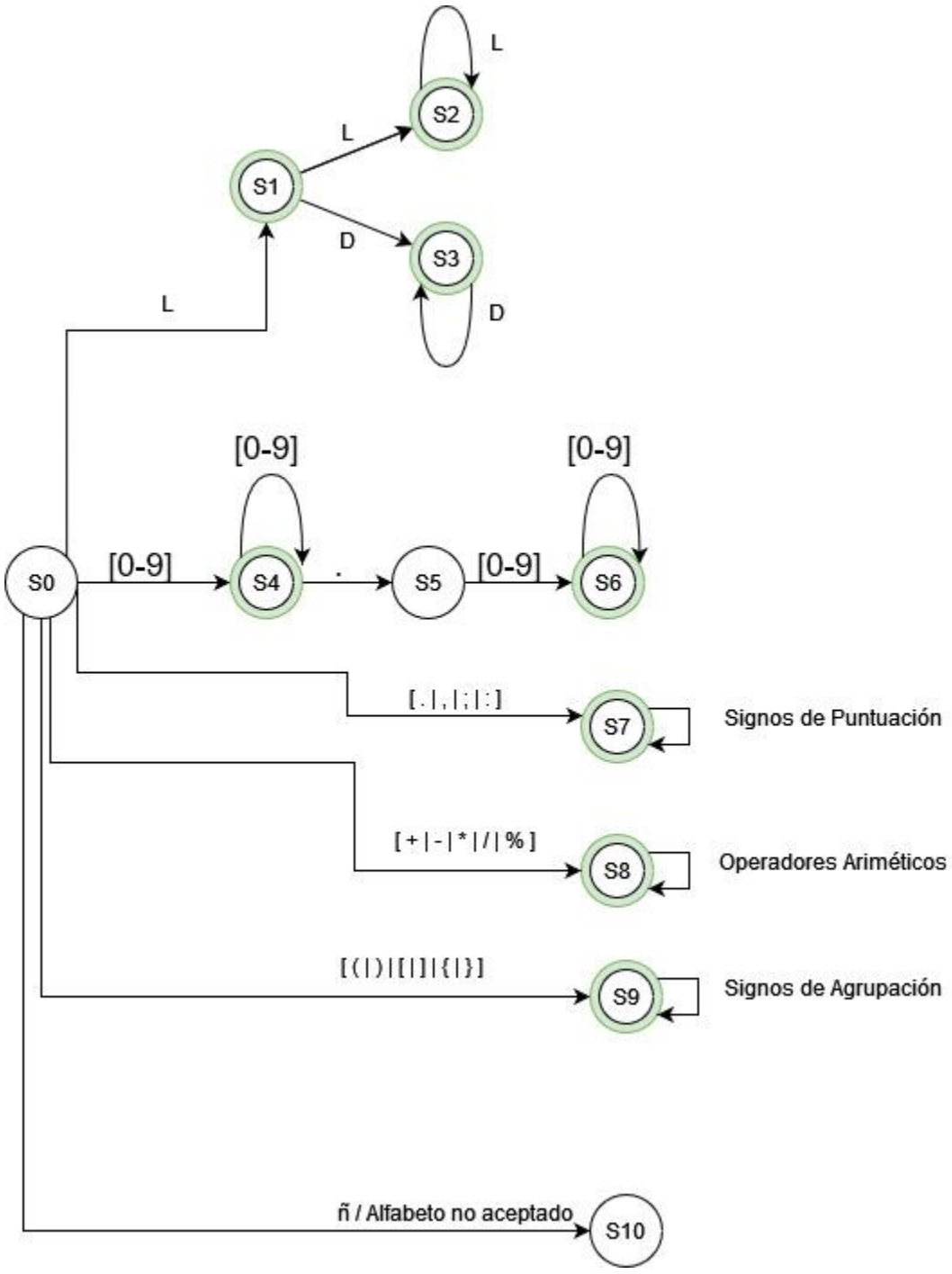


Tabla de Transiciones δ

S0(L) = S1	S0(D) = S4	S0(SP) = S7	S0(OA) = S8	S0(SA) = S9	S0(ND) = S10 = Error
S1(L) = S2	S1(D) = S3	S1(SP) = Error	S1(OA) = Error	S1(SA) = Error	S1(ND) = Error
S2(L) = S2	S2(D) = Error	S2(SP) = Error	S2(OA) = Error	S2(SA) = Error	S2(ND) = Error
S3(L) = Error	S3(D) = S3	S3(SP) = Error	S3(OA) = Error	S3(SA) = Error	S3(ND) = Error
S4(L) = Error	S4(D) = S4	S4(SP) = S5 [.]	S4(OA) = Error	S4(SA) = Error	S4(ND) = Error
S5(L) = Error	S5(D) = S6	S5(SP) = Error	S5(OA) = Error	S5(SA) = Error	S5(ND) = Error
S6(L) = Error	S6(D) = S6	S6(SP) = Error	S6(OA) = Error	S6(SA) = Error	S6(ND) = Error