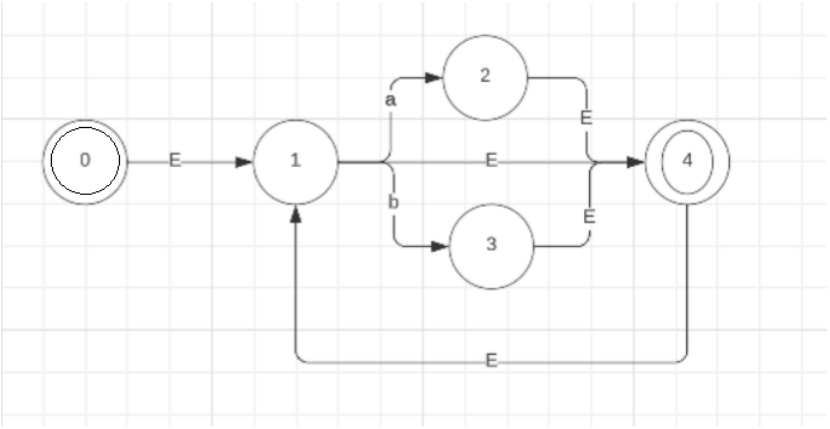
Trabajo Práctico Nº2 en Clase Verdini - Caballero

Autómatas y Gramáticas

Ejercicio 1

(a/b)*



AFD

Cerradura -e (0)= {0;1;4}=A

Mueve (A;a)={2}

Cerradura -e {2}= {2;4;1}=B

Mueve (A;b)= {3}

Cerradura -e {3}={3;4;1}=C

Mueve (B;a)={2}

Cerradura -e {2}={2;4;1}=B

Mueve (B;b)={3}

Cerradura -e {3}={3;4;1}=C

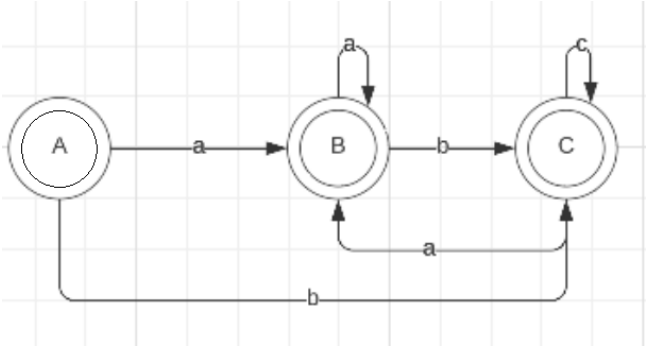
Mueve (C;a)= {2}

Cerradura -e{2}={2;4;1}=B

Mueve (C;b)={3}

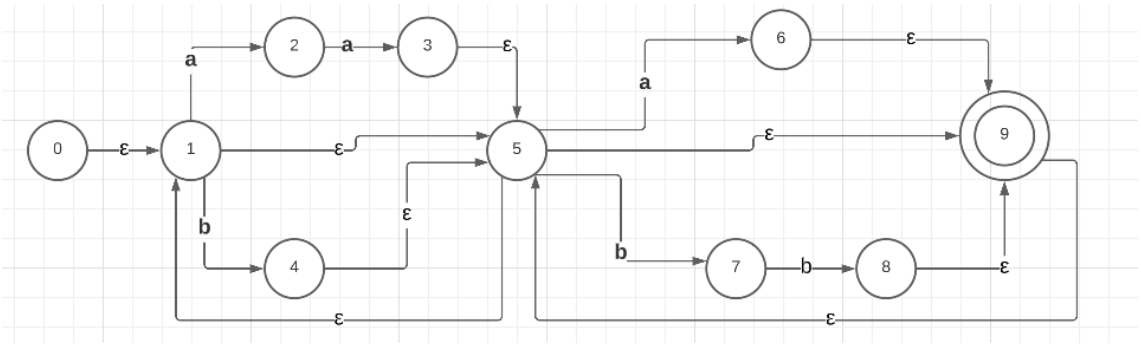
Cerradura -e{3}={3;4;1}=C

Estados	a	b
A	B	C
B	B	C
C	B	C



Ejercicio 2

(aa/b)*(a/bb)*



Cerradura -e (s)

Cerradura -e(T)

Mueve (T, a) = {0}

Cerradura -e (0)= {0; 1; 5; 9}=A= estado final

Mueve (A;a)={2; 6}

Cerradura -e {2;6}= {1, 2, 5, 6, 9}=B= estado final

Mueve (A;b)= {4; 7}

Cerradura -e {4; 7}={1, 4, 5, 7, 9}=C= estado final

Mueve (B;a)={2, 3, 6}

Cerradura -e {2, 3, 6}={1, 2, 3, 5, 6, 9}=D= estado final

Mueve (B;b)={4, 7}

Cerradura -e {4, 7}={1, 4, 5, 7, 9}= C

Mueve (C;a)= {2, 6}

Cerradura -e{2; 6}=B= estado final

Mueve (C;b)={4, 7, 8}

Cerradura -e{4, 7, 8}={1, 4, 5, 7, 8, 9}=E= estado final

Autómatas y Gramáticas

Mueve (D;a)={2, 3, 6}

Cerradura -e{2, 3, 6} = D

Mueve (D;b)={4, 7}

Cerradura -e{4, 7}=C= estado final

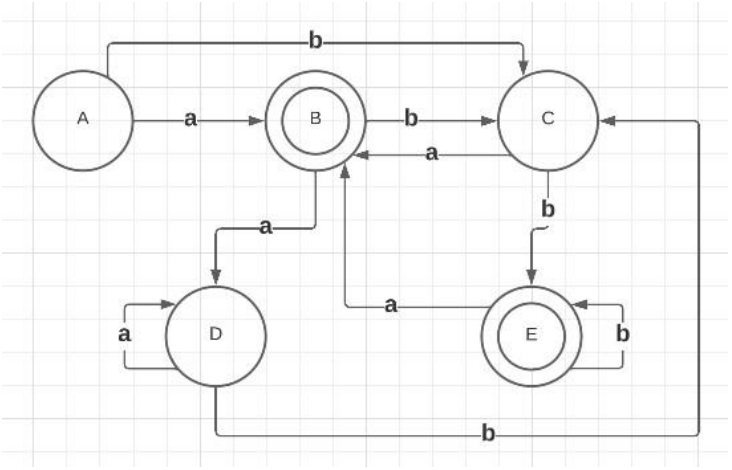
Mueve (E, a): {2, 6}

Cerradura -e{2, 6} = B

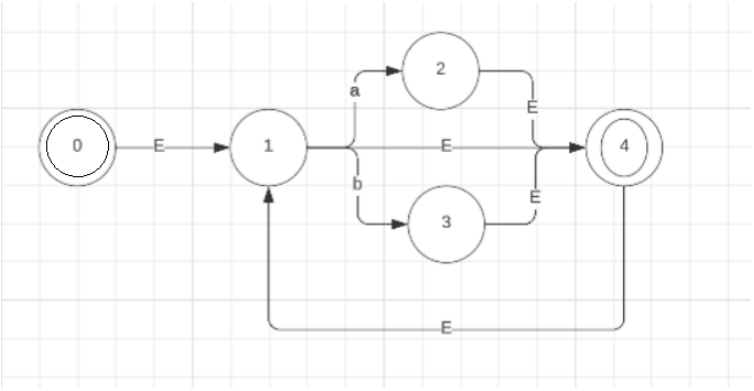
Mueve (E, b) = {4, 7, 8}

Cerradura {4, 7, 8} = E

Estados	a	b
A	B	C
B	D	C
C	B	E
D	D	C
E	B	E



Ejercicio 3:



AFD

Cerradura -e (0)= {0;1;4}=A

Trabajo Práctico Nº2 en Clase Verdini - Caballero

Autómatas y Gramáticas

Mueve (A;a)={2}

Cerradura -e {2}= {2;4;1}=B

Mueve (A;b)= {3}

Cerradura -e {3}={3;4;1}=C

Mueve (B;a)={2}

Cerradura -e {2}={2;4;1}=B

Mueve (B;b)={3}

Cerradura -e {3}={3;4;1}=C

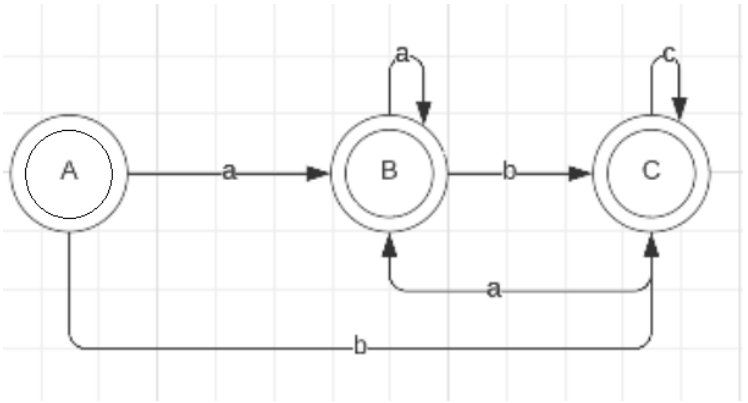
Mueve (C;a)= {2}

Cerradura -e{2}={2;4;1}=B

Mueve (C;b)={3}

Cerradura -e{3}={3;4;1}=C

Estados	a	b
A	B	C
B	B	C
C	B	C



Repositorio Caballero-Verdini:

https://github.com/fede-caballero/Automatas/tree/main/Trabajo%20Practico%202%20en%20clase