PRÁCTICA JFLP SESIÓN 1

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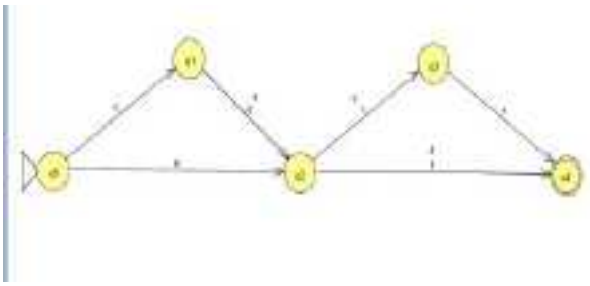
Ejercicio 1.a:
OBTENER EL AFD EQUIVALENTE:

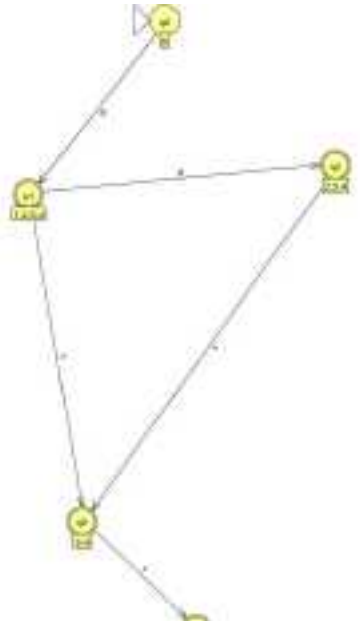
	0	**1**	**λ**	**λ***	**λ*0λ***	**λ*1λ***
->q0	q1,q2	--	--	q0	q1,q2,q3, q4	--
q1	q2	--	q2	q1,q2,q3,q4	q2,q3,q4	q3, q4
q2	--	q3,q4	q3,q4	q2,q3,q4	--	q3, q4
q3	--	q4	--	q3	--	q4
***q4**	--	--	--	q4	--	--

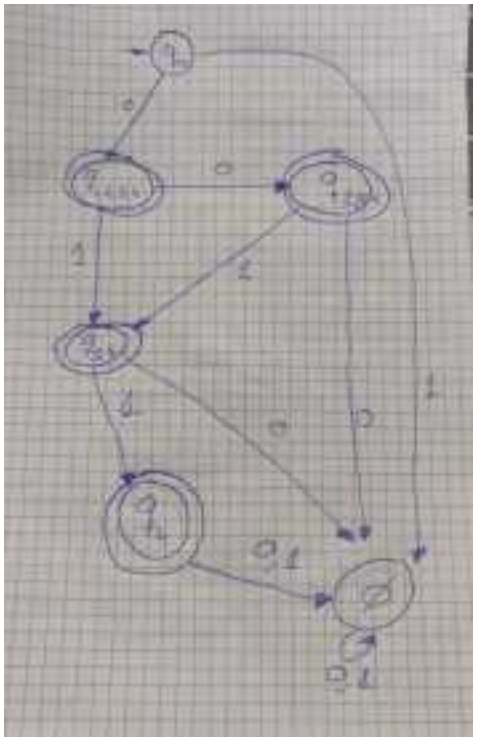
	0	**1**
->{q0}	{q1,q2,q3, q4}	Φ
***** **{q1,q2,q3, q4}**	{q2}	{q3,q4}
***{q2,q3,q4}**	Φ	{q3,q4}
***{q3,q4}**	Φ	{q4}
{q4}	Φ	Φ
Φ	Φ	Φ

AFND:



AFD EQUIVALENTE:





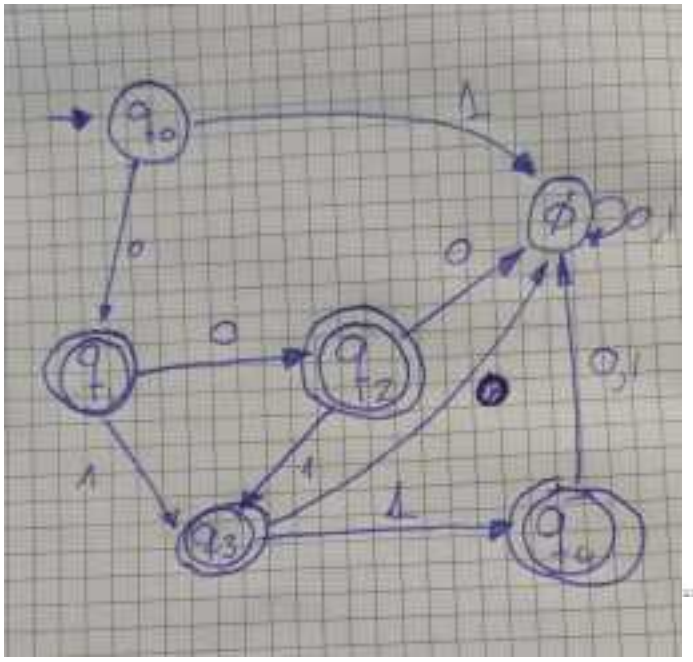
MANUAL

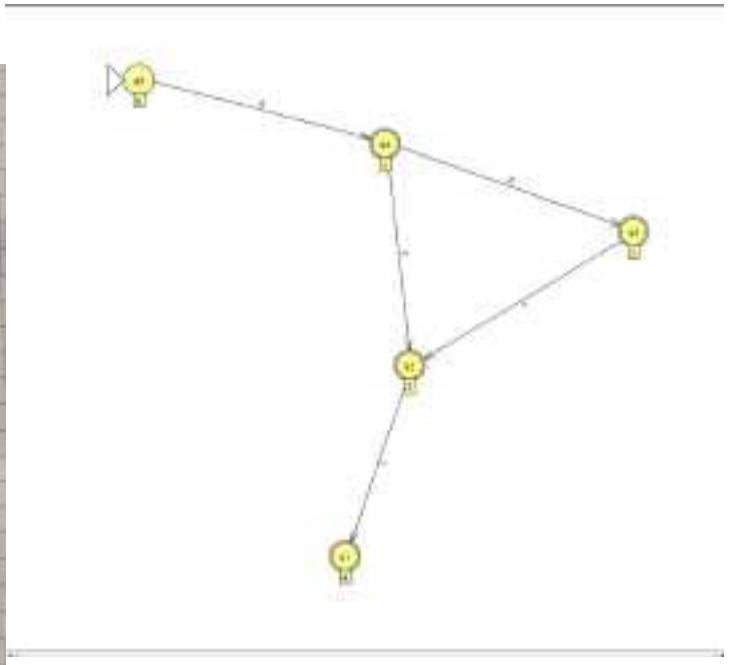
Ejercicio 1.b: Mínimo del AFD equivalente:
q1,2,3,4 = q1
q2,3,4 = q2
q3,4 = q3

	0	**1**	**Q/E1 0**	**Q/E1 1**	**Q/E2 0**	**Q/E2 1**	**Q/E3 0**	**Q/E3 1**
->q0	q1	Φ	C1	C1	C1	C1	C1	C4
***q1**	q2	q3	C1	C1	C1	C3	C1	C3
***q2**	Φ	q3	C1	C1	C1	C3	C4	C3
***q3**	Φ	q4	C1	C2	--	--	--	--
***q4**	Φ	Φ	--	--	--	--	--	--
Φ	Φ	Φ	C1	C1	C1	C1	C4	C4

Q/E0 = {C1= {q0,q1,q2,q3,Φ}, C2 = {q4}}
Q/E1 = {C1= {q0,q1,q2,Φ}, C2 = {q4}, C3 = {q3}}
Q/E2 = {C1= {q1,q2}, C2 = {q4}, C3 = {q3}, C4={q0,Φ}}
Q/E3 = {C1= {q1}, C2 = {q4}, C3 = {q3}, C4={q0}, C5 ={Φ}, C6 ={q2}}

ES IGUAL AL AFD ANTERIOR, POR TANTO,
EL AFD YA ERA MÍNIMO.

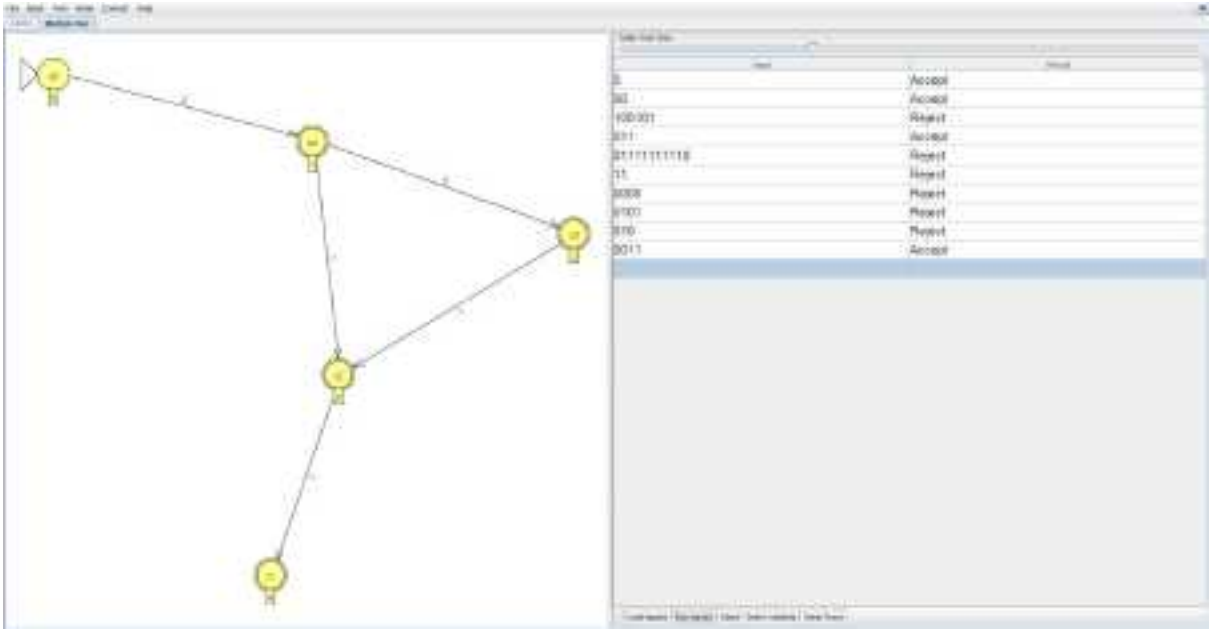




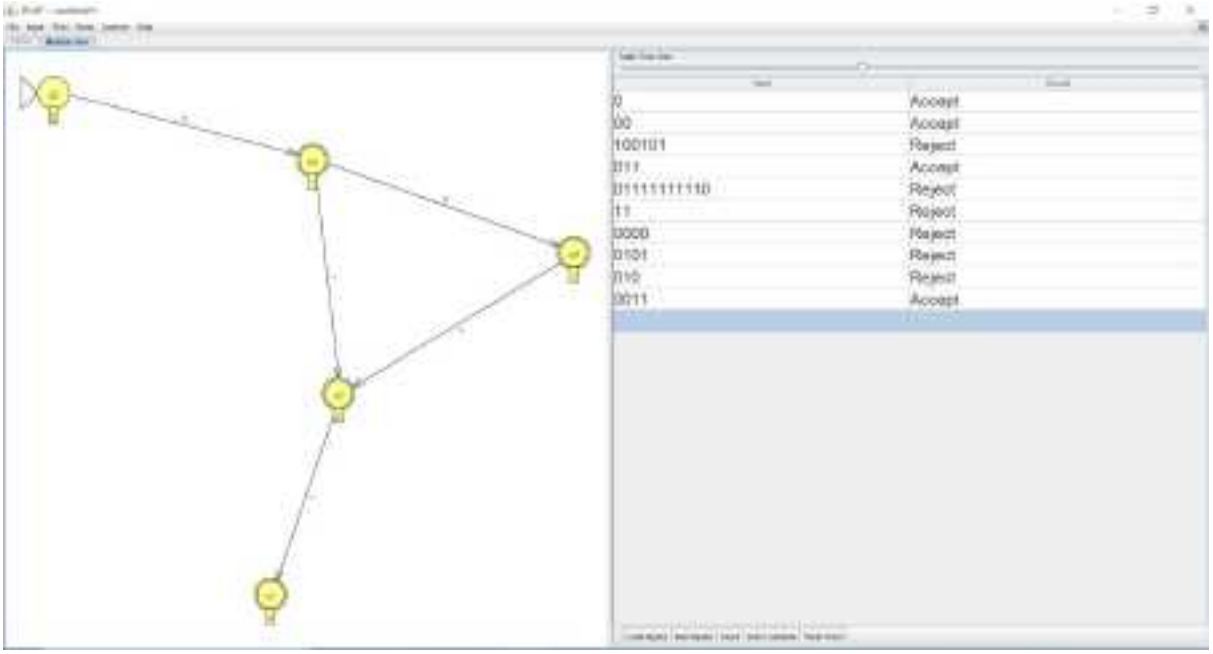
Ejercicio 1.c: Mínimo del AFD equivalente:

El lenguaje que reconocen estos autómatas es **0^m 1^n tal que 1<=m<=2 y 0<=n<=2**

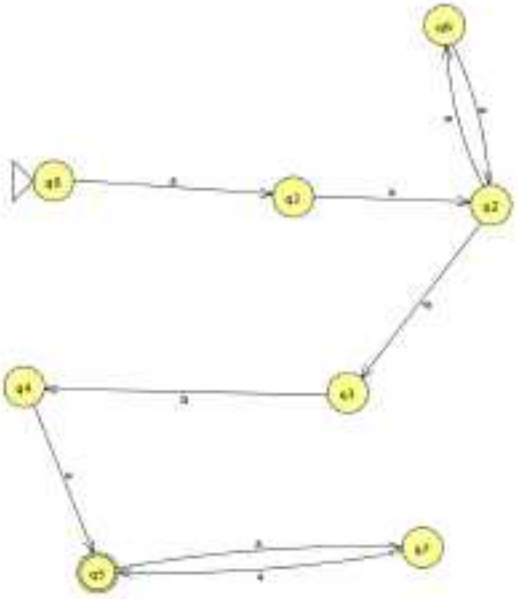
MÍNIMO TEST



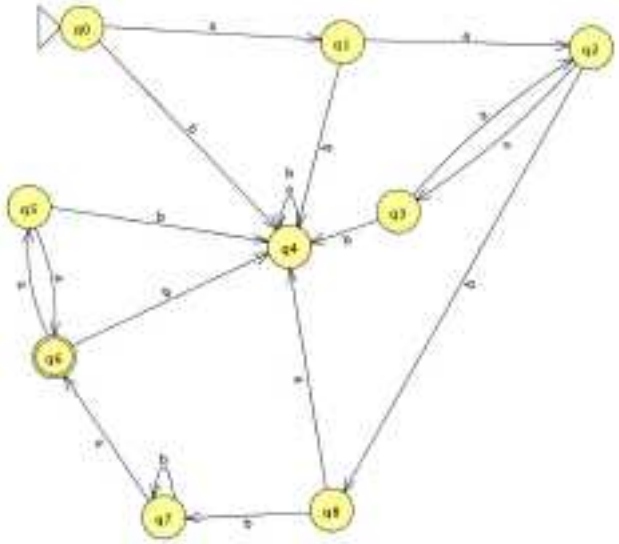
AFD EQUIVALENTE TEST



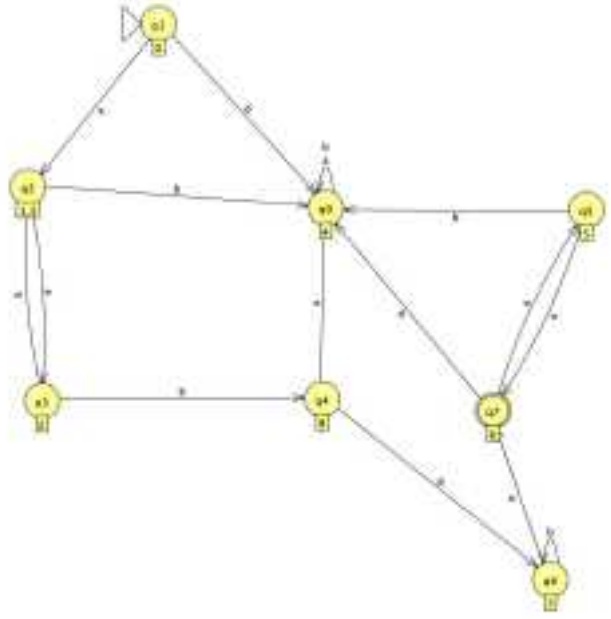
EJERCICIO 2:
AFND:



AFD:



AFD Mínimo:



TEST LENGUAJE: