

PRÁCTICA JFLP SESIÓN 1

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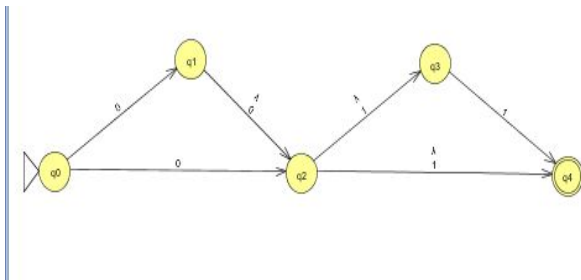
Ejercicio 1.a:

OBTENER EL AFD EQUIVALENTE:

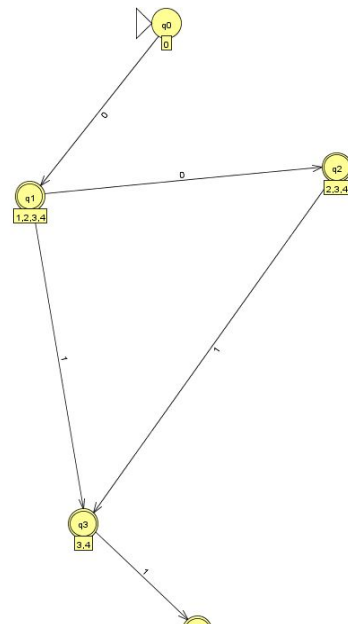
	0	1	λ	λ^*	$\lambda^*0\lambda^*$	$\lambda^*1\lambda^*$
$\rightarrow q_0$	q_1, q_2	--	--	q_0	q_1, q_2, q_3, q_4	--
q_1	q_2	--	q_2	q_1, q_2, q_3, q_4	q_2, q_3, q_4	q_3, q_4
q_2	--	q_3, q_4	q_3, q_4	q_2, q_3, q_4	--	q_3, q_4
q_3	--	q_4	--	q_3	--	q_4
$*q_4$	--	--	--	q_4	--	--

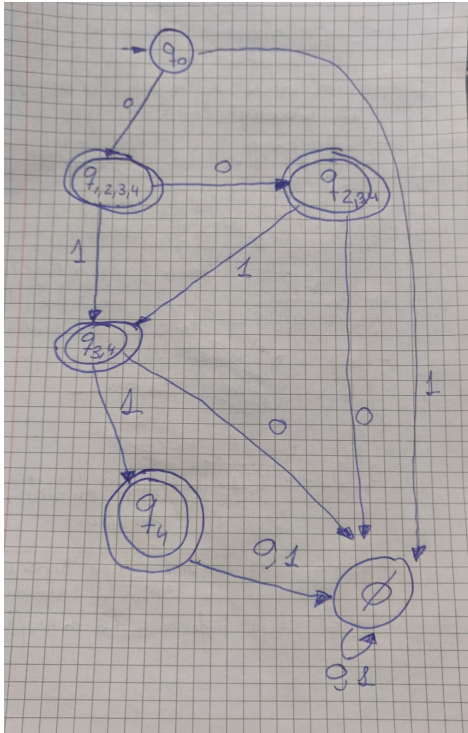
	0	1
$\rightarrow \{q_0\}$	$\{q_1, q_2, q_3, q_4\}$	Φ
$* \{q_1, q_2, q_3, q_4\}$	$\{q_2\}$	$\{q_3, q_4\}$
$* \{q_2, q_3, q_4\}$	Φ	$\{q_3, q_4\}$
$* \{q_3, q_4\}$	Φ	$\{q_4\}$
$\{q_4\}$	Φ	Φ
Φ	Φ	Φ

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

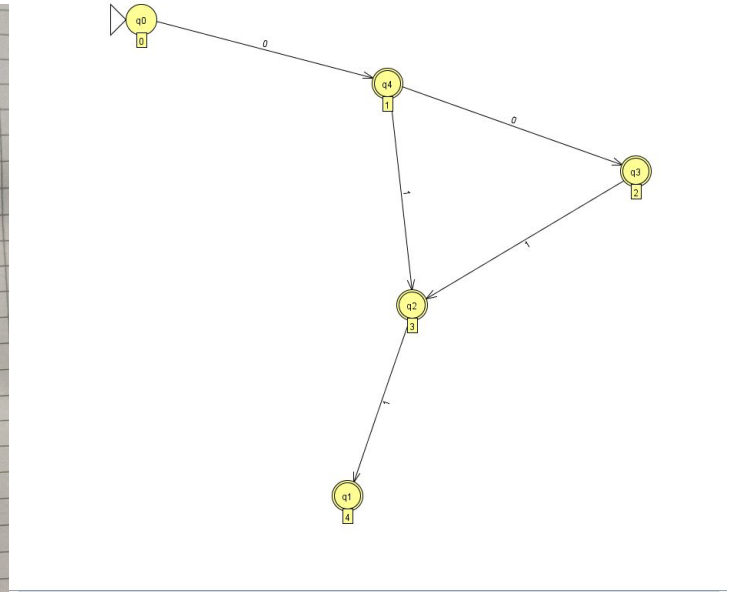
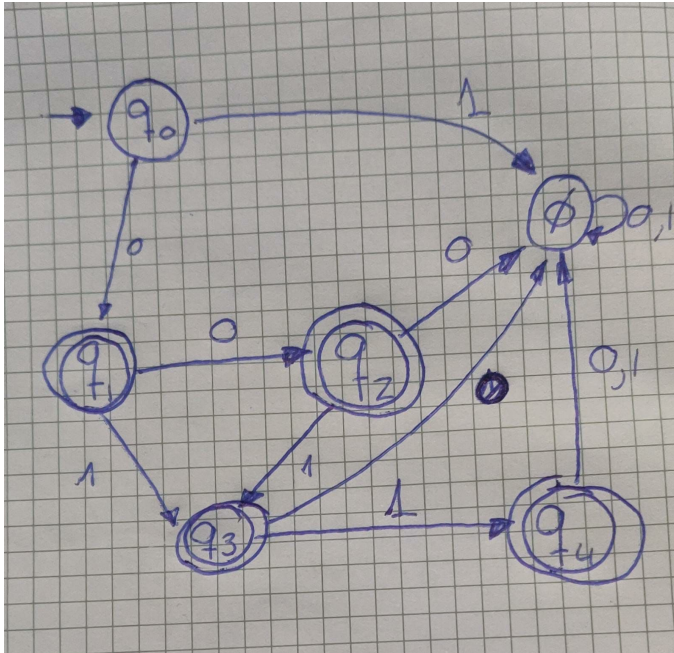
$Q/E0 = \{C1 = \{q0, q1, q2, q3, \Phi\}, C2 = \{q4\}\}$

$Q/E1 = \{C1 = \{q0, q1, q2, \Phi\}, C2 = \{q4\}, C3 = \{q3\}\}$

$Q/E2 = \{C1 = \{q1, q2\}, C2 = \{q4\}, C3 = \{q3\}, C4 = \{q0, \Phi\}\}$

$Q/E3 = \{C1 = \{q1\}, C2 = \{q4\}, C3 = \{q3\}, C4 = \{q0\}, C5 = \{\Phi\}, C6 = \{q2\}\}$

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



Ejercicio 1.c: Mínimo del AFD equivalente:

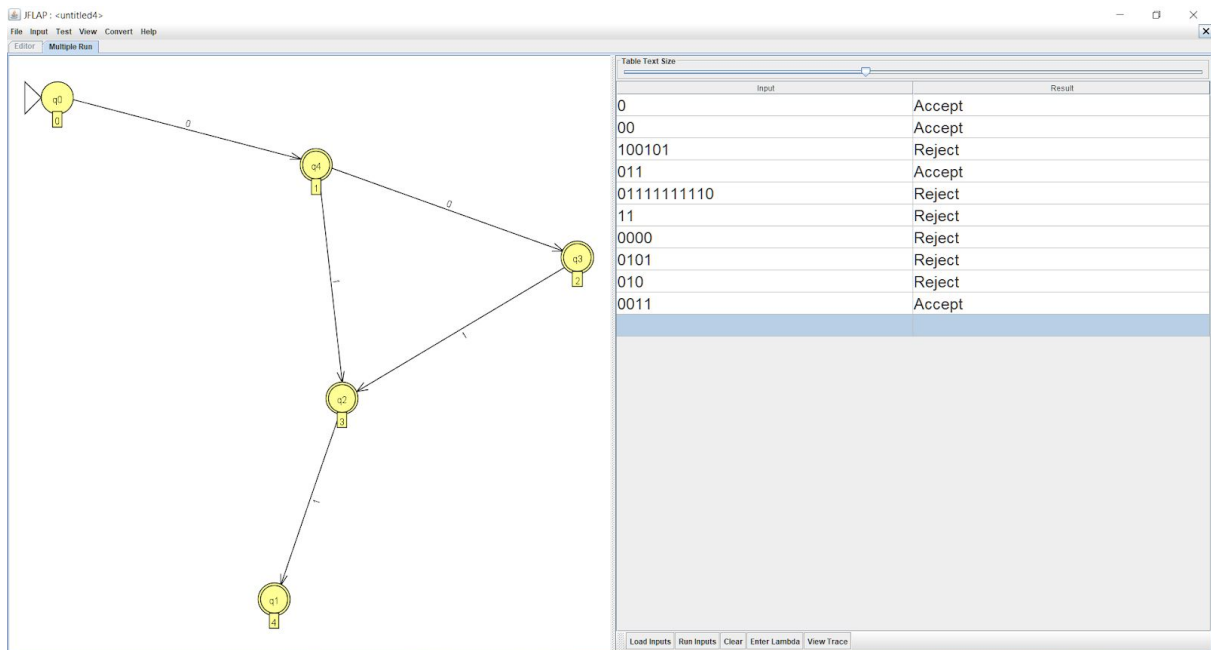
El lenguaje que reconocen estos autómatas es $0^m 1^n$ tal que $1 \leq m \leq 2$ y

$0 \leq n \leq 2$

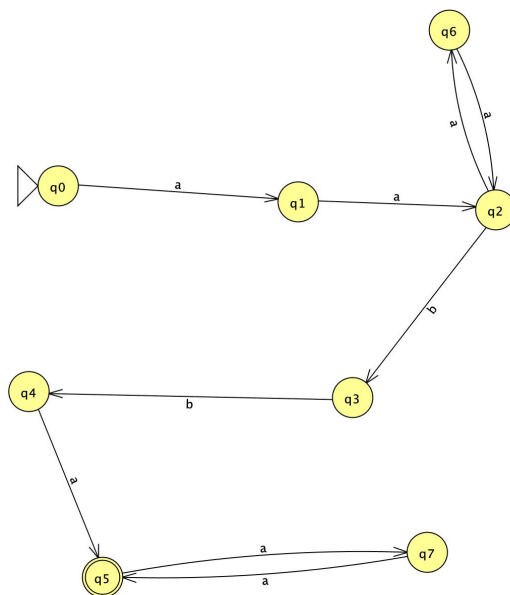
MÍNIMO TEST

Input	Result
0	Accept
00	Accept
100101	Reject
011	Accept
01111111110	Reject
11	Reject
0000	Reject
0101	Reject
010	Reject
0011	Accept

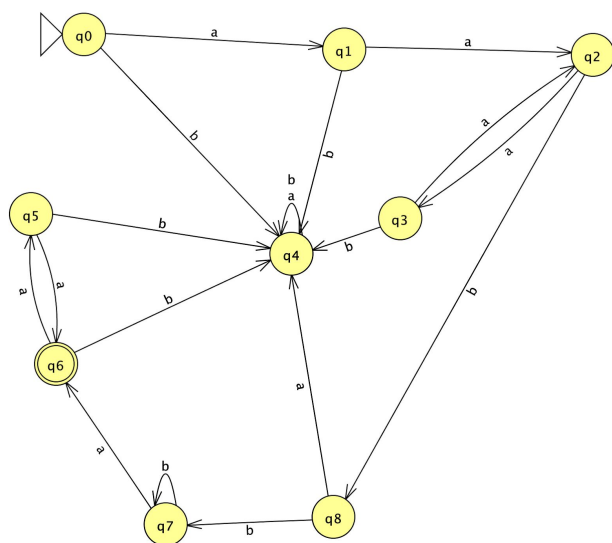
AFD EQUIVALENTE TEST



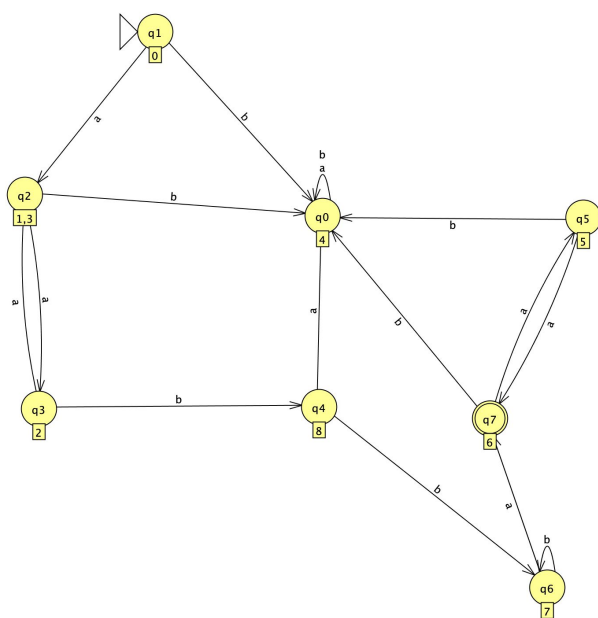
EJERCICIO 2: AFND:



AFD:



AFD Mínimo:



TEST LENGUAJE:

