

Laboratorio 3

Problema 2

$0?(17)? 0^+ \rightarrow$ Resultado esperado

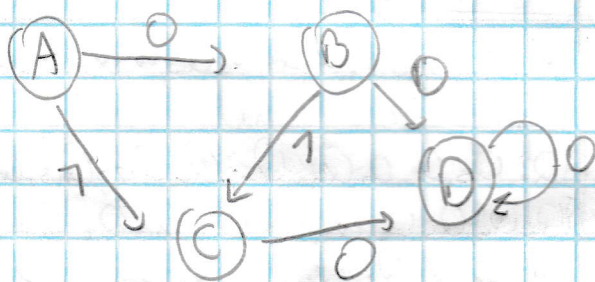
$$R = Q + RP$$

AFND a AFD

Estados	0	1	
$\Rightarrow Q_0$	—	—	$\{Q_0, Q_1, Q_2, Q_3, Q_4, Q_5, Q_6, Q_7, Q_8, Q_9, Q_{10}, Q_{11}, Q_{12}, Q_{13}, Q_{14}, Q_{15}, Q_{16}\}$
Q_1	Q_2	—	$\{Q_1\}$
Q_2	—	—	$\{Q_2, Q_3, Q_4, Q_5, Q_6, Q_7, Q_8, Q_9, Q_{10}, Q_{11}, Q_{12}, Q_{13}, Q_{14}, Q_{15}, Q_{16}\}$
Q_3	—	—	$\{Q_3, Q_4, Q_5, Q_6, Q_7, Q_8, Q_9, Q_{10}, Q_{11}, Q_{12}, Q_{13}, Q_{14}, Q_{15}, Q_{16}\}$
Q_4	—	—	$\{Q_4, Q_5, Q_6, Q_7, Q_8, Q_9, Q_{10}, Q_{11}, Q_{12}, Q_{13}, Q_{14}, Q_{15}, Q_{16}\}$
Q_5	—	—	$\{Q_5, Q_6, Q_7, Q_8, Q_9, Q_{10}, Q_{11}, Q_{12}, Q_{13}, Q_{14}, Q_{15}, Q_{16}\}$
Q_6	—	—	$\{Q_6, Q_7, Q_8, Q_9, Q_{10}, Q_{11}, Q_{12}, Q_{13}, Q_{14}, Q_{15}, Q_{16}\}$
Q_7	—	Q_8	$\{Q_7\}$
Q_8	—	—	$\{Q_8, Q_9, Q_{10}, Q_{11}, Q_{12}\}$
Q_9	—	—	$\{Q_9, Q_{10}, Q_{11}, Q_{12}, Q_{13}\}$
Q_{10}	—	—	$\{Q_{10}, Q_{11}, Q_{12}, Q_{13}\}$
Q_{11}	—	—	$\{Q_{11}, Q_{12}, Q_{13}, Q_{14}\}$
Q_{12}	—	—	$\{Q_{12}, Q_{13}, Q_{14}, Q_{15}, Q_{16}\}$
Q_{13}	—	—	$\{Q_{13}, Q_{14}, Q_{15}, Q_{16}\}$
Q_{14}	—	—	$\{Q_{14}, Q_{15}, Q_{16}\}$
Q_{15}	Q_{16}	—	$\{Q_{15}\}$
Q_{16}	—	—	$\{Q_{15}, Q_{16}\}$
Q_{17}	—	—	$\{Q_{17}\}$

Cambiare a colocar solo los indices, por tener de espacio y simplicidad.

Estados del AFN	$0E^+$	$1E^+$
$\{0, 1, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 17\} = A$	$\{2, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 17\} = B$	$\{8, 11, 14, 15, 17\} = C$
$\{2, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 17\} = B$	$\{15, 17\} = D$	$\{8, 11, 14, 15, 17\} = C$
$\{8, 11, 14, 15, 17\} = C$	$\{15, 17\} = D$	
$\{15, 17\} = D$	$\{15, 17\} = D$	



$$A = \varepsilon \quad B = 0 + C \quad A = ((0^+ 0 \varepsilon) \cup 0^+ \varepsilon) \cup 0^+ 0 \varepsilon$$

$$B = 10^+ 1 D \quad B = (0^+ 0 \varepsilon) 1 \cup 0^+ \varepsilon$$

$$C = 10^+ \quad C = 0^+ 0 \varepsilon = 0^+$$

$$D = 00^+ \varepsilon \quad D = 0^+ \varepsilon$$

$$A = ((0^+ 0 \varepsilon) \cup 0^+ \varepsilon) \cup 0^+ 0 \varepsilon$$

$$A = 0^+ (1^+)^+ 0^+$$