

9/13/16

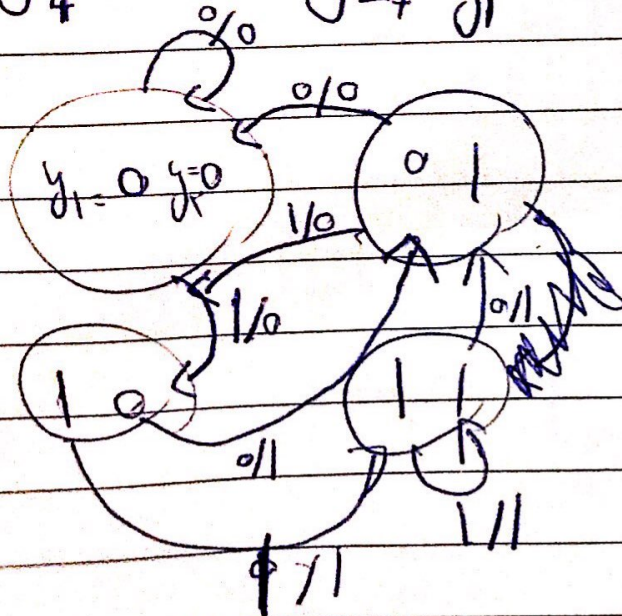
سرمه

mealy machine

الف

$$z_4 = x \oplus x \oplus y_1 = y_1$$

$$y_4 = x \quad y_2 = y_1$$



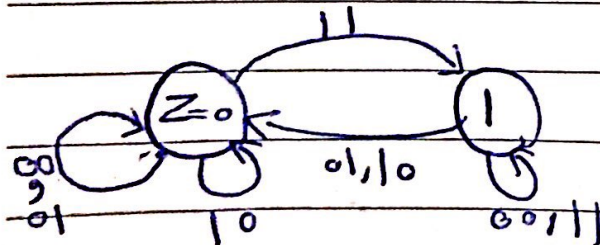
y_1	y_2	x	y_1	y_2	z
0	0	0	0	0	0
0	0	1	0	1	0
0	1	0	0	1	0
0	1	1	1	1	1
1	0	0	1	0	1
1	0	1	1	0	1
1	1	0	1	1	1
1	1	1	0	1	1

$$Z = S + R'Q \Rightarrow S = ab$$

$$R = A \odot B \Rightarrow AB + \bar{A}\bar{B}$$

$$Z+ = ab + ABZ + \bar{A}\bar{B}Z = ab + \bar{A}\bar{B}Z$$

Z	A	B	Z+ = 0
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1



Moore machine

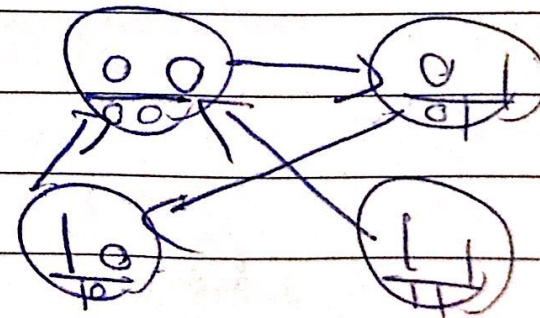
C.

State $Q_{n+1} = \bar{Q}_1 \cdot Q_0$

$$Q_0^+ = \bar{Q}_1 \bar{Q}_0$$

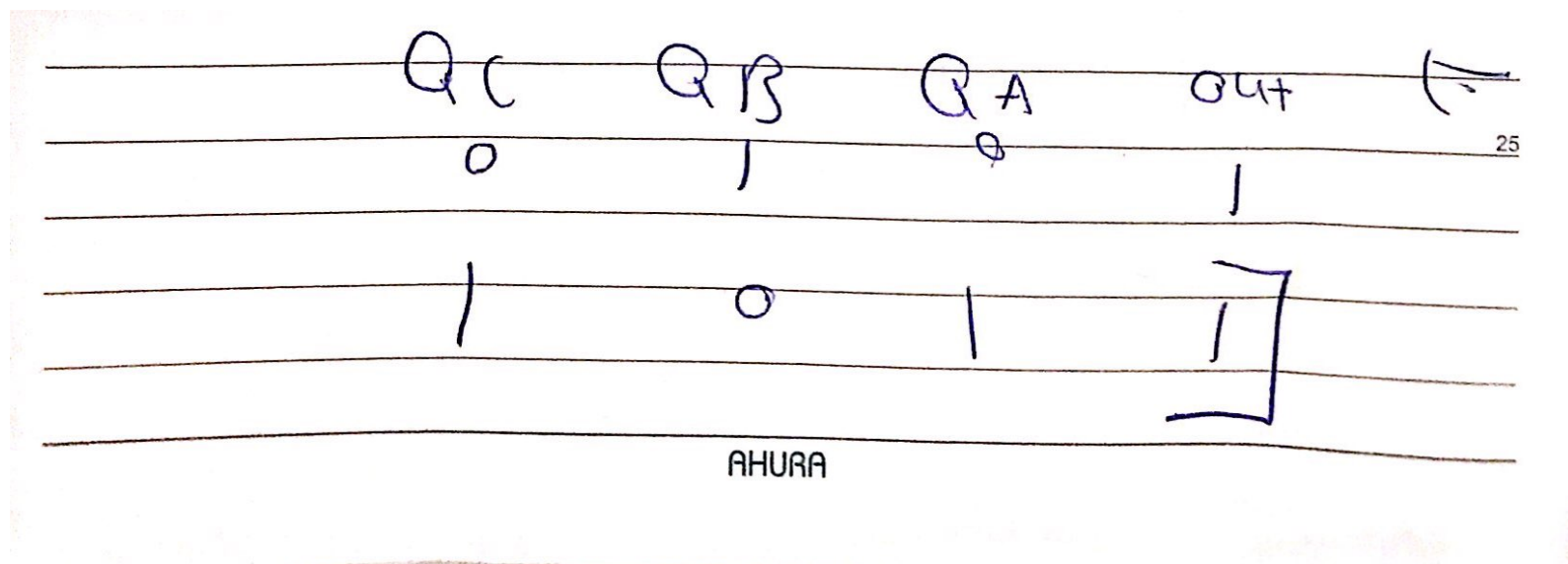
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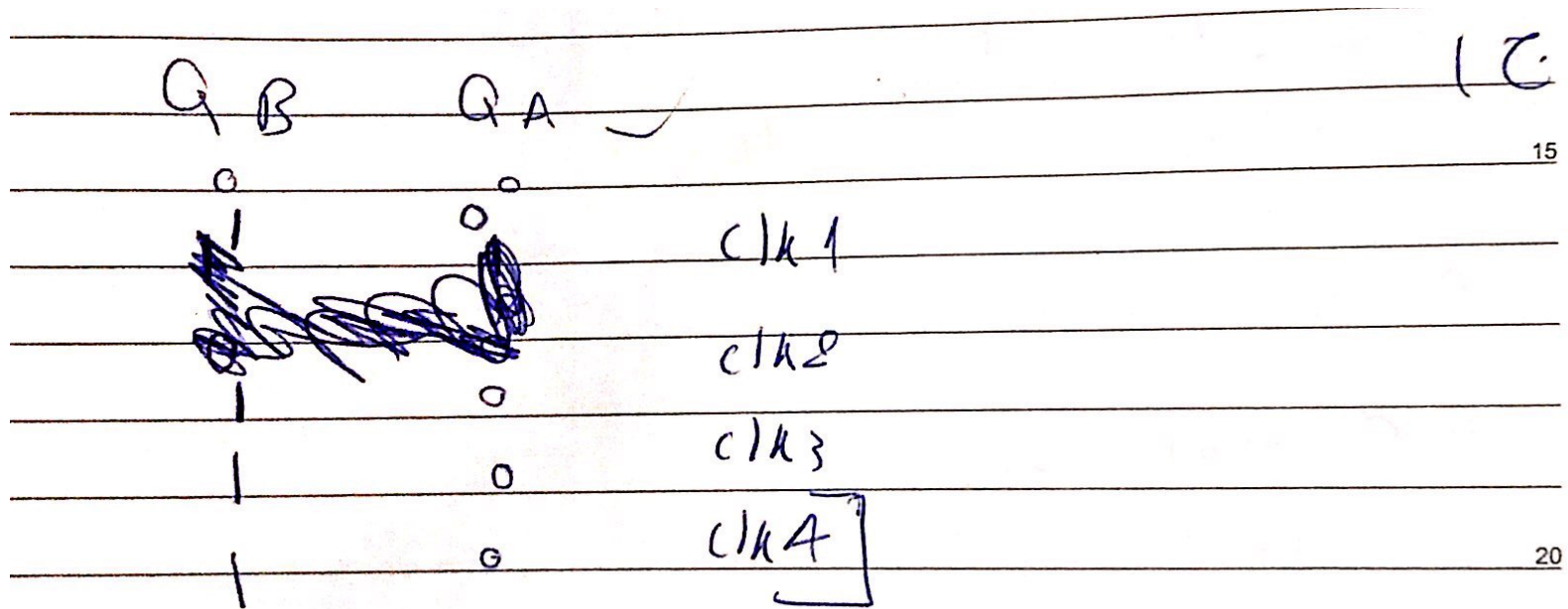
Q_1	Q_0	$Q_1^+ \quad Q_0^+$	
0	0	0	1
0	1	1	0
1	0	0	0
1	1	0	0

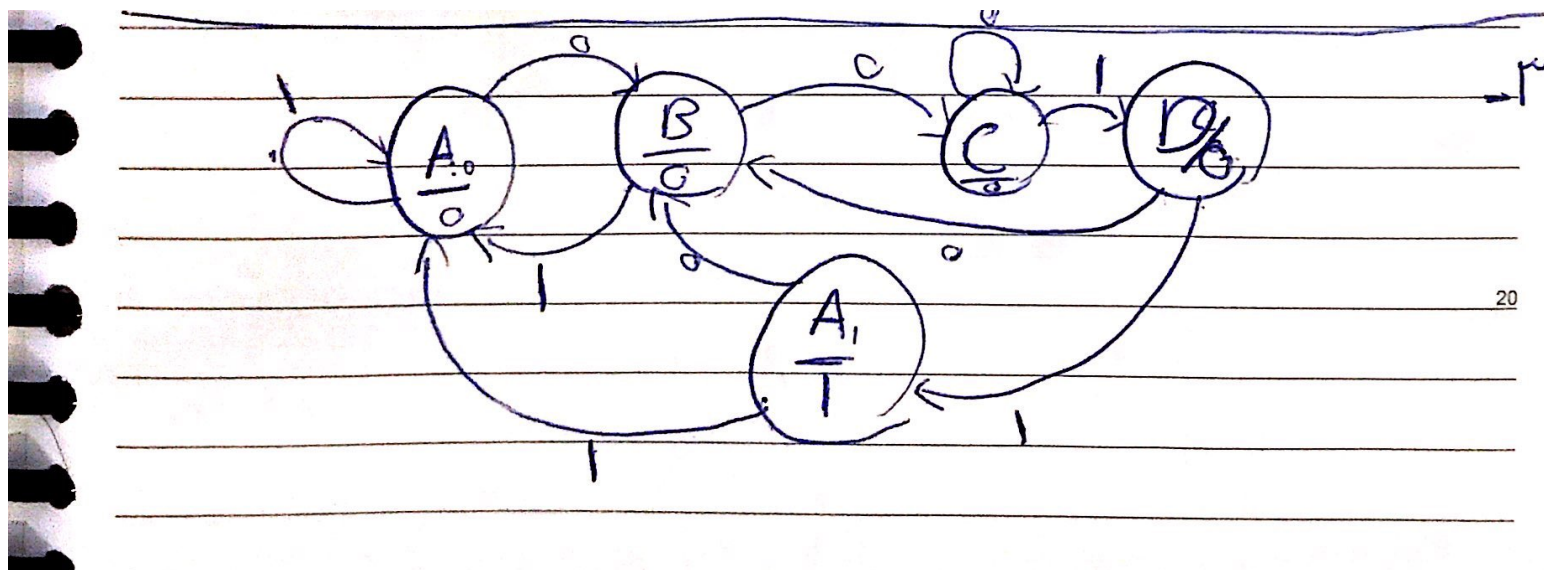


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Date: ()				Subject
Q ₂	Q ₁	Q ₀		(الف ١ - ٢)
0	1	0		
0	0	1	clk ₁	
1	0	0	clk ₂	
1	1	0	clk ₃	



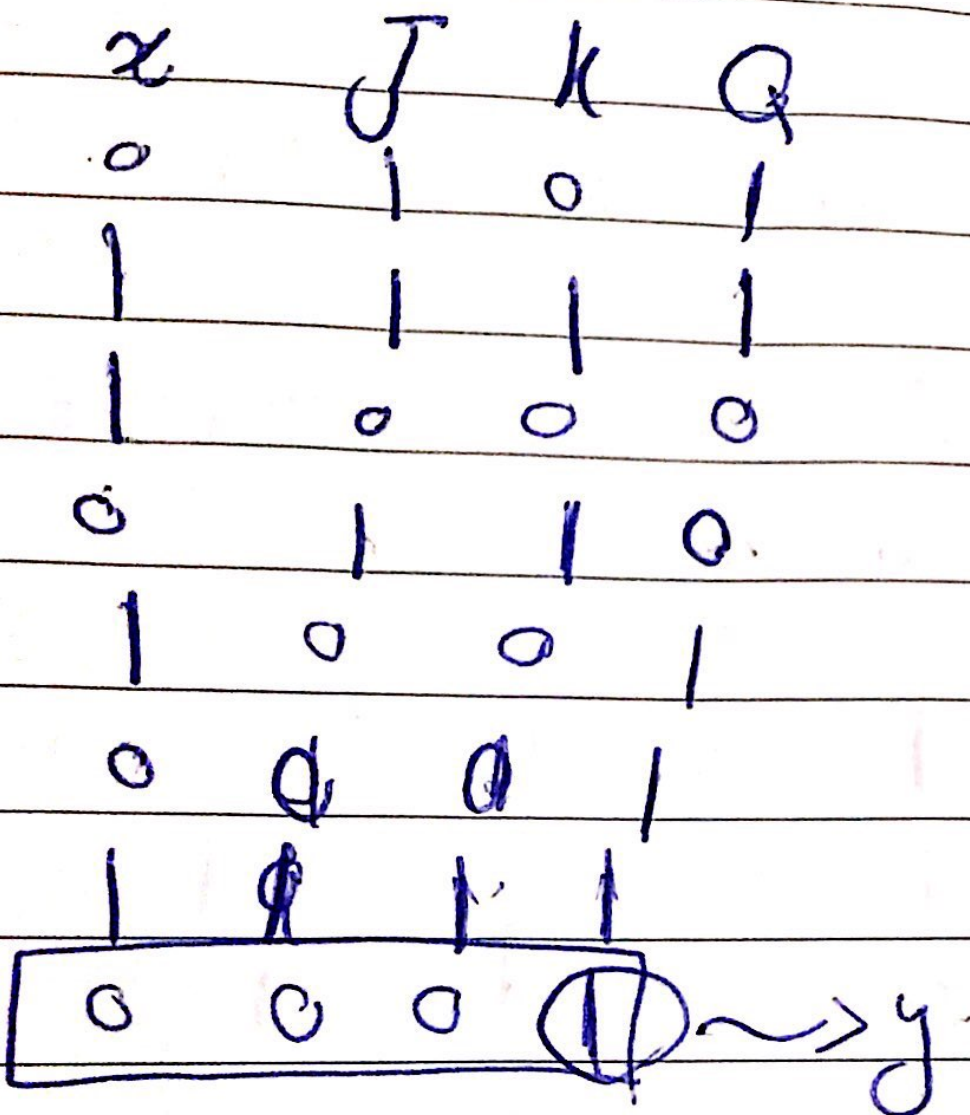




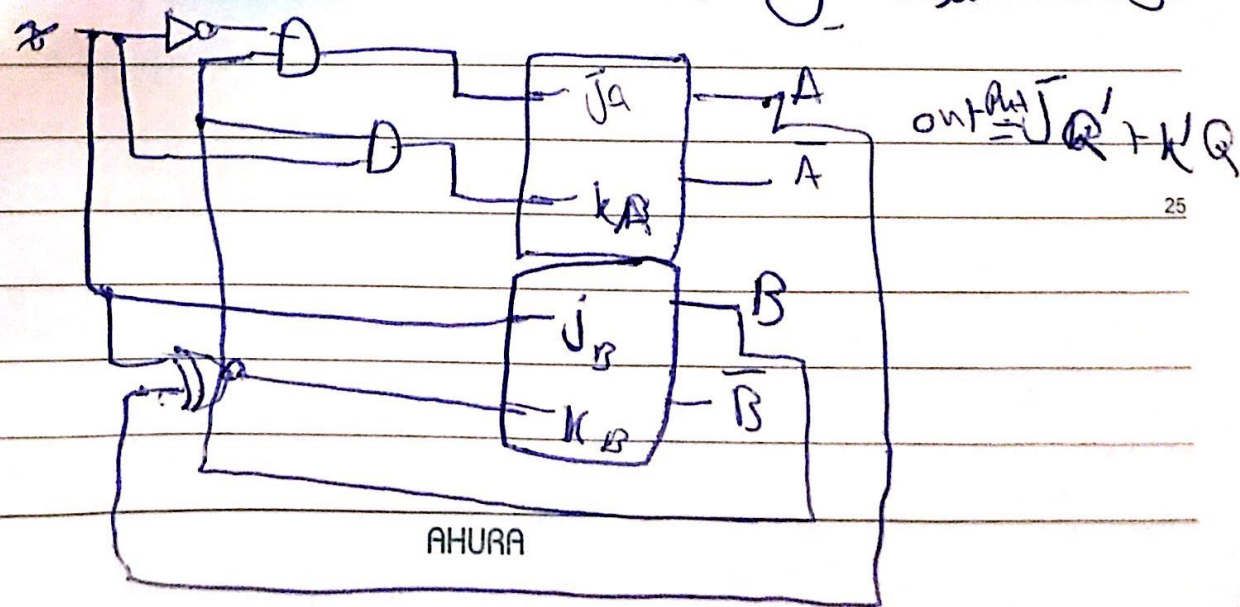
subject

$$J=1 \quad k=0 \quad Q=1 \quad - \quad \varepsilon$$

$$JQ' + k'Q$$



د - مدار این گیت است -



States, outputs: A, B

input: x

A	B	x	A ₊	B ₊
0	0	0	0	0
0	0	1	0	1
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	1	1
1	1	0	1	1
1	1	1	0	0

