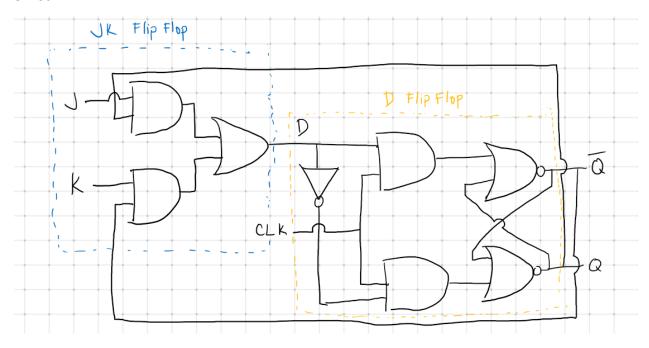
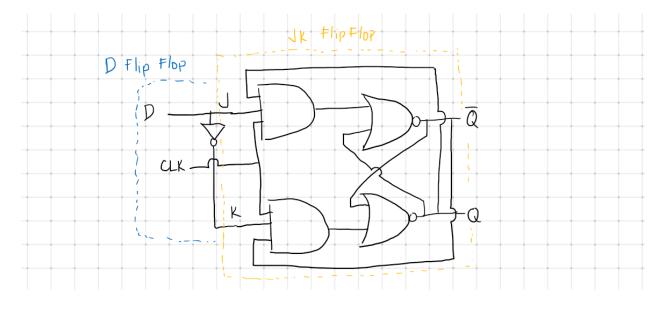
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3.10a



3.10b



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3.20

FSM States = $5^4 = 625$. Requires 2^{10} or 10 bits to represent all 625 states.

3.22

This Moore FSM asserts the output Q every clock cycle if A is TRUE followed by B being TRUE.

State Encoding Table		C	State Transi Current State		ition Table with Bi		inary Encodings Next State		Output Table with Binary Encoding Current Stable Output			
State	Encooling Si:0	S	So	a	Ь	۵'۱	5'0		S	٥2	Q	
<u>50</u>	00	0	0	0	X	0	0		0	0	0	
SI	01	C	0	\	×	Ô	l (= S'o	0	(0	
S2	ID	C	1	X	0	O	0			0		=Q
		0	(×		1	0	- S' ₁				
			0	×	×	0	0					
			S'o	$= \frac{2}{5} = \frac{2}{5}$	o A		= S	(
		В —)	S', CLX	15,	TQ				
		A.T.))_	S'o	S 0	1				
		5,	50			Res	et					