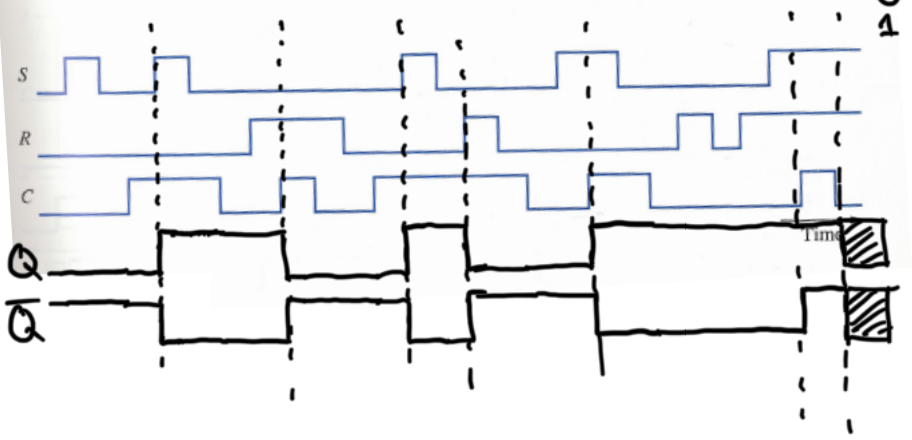
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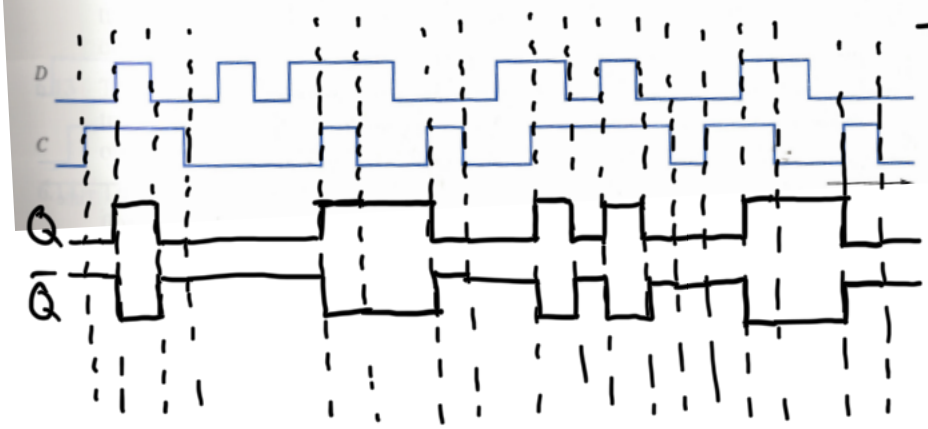
S	R	C	Q^+	$\bar{Q}^+$
X	X	0	Q	$\bar{Q}$
0	0	1	Q	$\bar{Q}$
1	0	1	1	0
0	1	1	0	1
1	1	1	?	?

6.4 The input signals shown in Fig. P6.4 are applied to the gated *SR* latch of Fig. 6.5*a* when initially in its 0-state. Sketch the Q and $\overline{Q}$ output signals. Assume all timing constraints are satisfied.



D	C	Q^+	$\bar{Q}^+$
X	0	Q	$\bar{Q}$
0	1	0	1
1	1	1	0

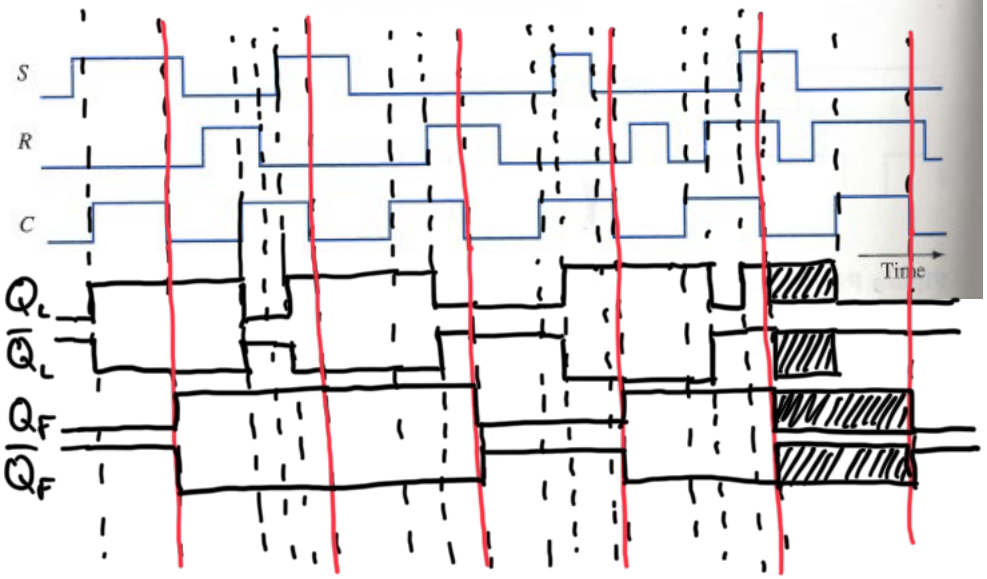
6.5 The input signals shown in Fig. P6.5 are applied to the gated *D* latch of Fig. 6.6*a* when initially in its 0-state. Sketch the Q and $\overline{Q}$ output signals. Assume all timing constraints are satisfied.



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6.6 The input signals shown in Fig. P6.6 are applied to the master-slave *SR* flip-flop of Fig. 6.12*a* when initially in its 0-state. Sketch the Q_M, $\overline{Q}_M$, Q_S, and $\overline{Q}_S$ output signals. Assume all timing constraints are satisfied.



6.7 The input signals shown in Fig. P6.7 are applied to the master-slave *JK* flip-flop of Fig. 6.14*a* when initially in its 0-state. Sketch the Q_M and Q_S output signals. Assume all timing constraints are satisfied.

