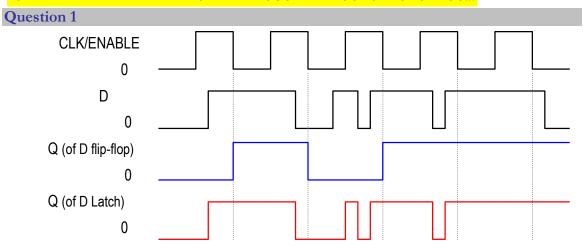
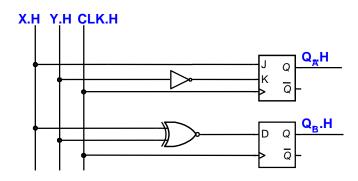
Tutorial 6 (SOLUTIONS)

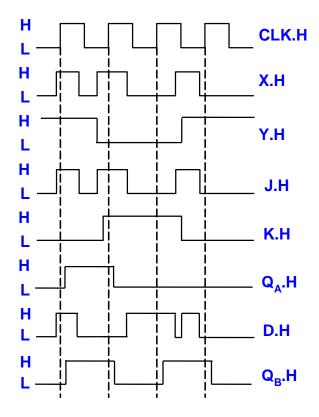
NOTE THAT THERE ARE OTHER POSSIBLE SOLUTIONS TOO ...



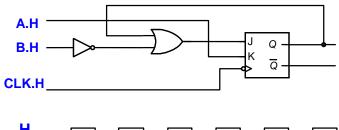
Assumption: The D input satisfies the set-up and hold times of the Latch and flip-flop. Also, the propagation delay of the devices are much less than the CLK period.

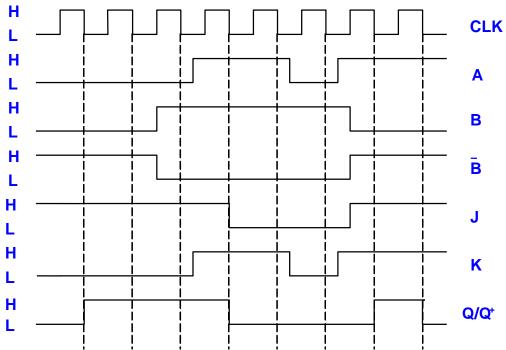
Question 2





Question 3





A	B	Q	\mathbf{Q}^{+}
0	0	0	1
0	0	1	1
0	1	0	0
0	1	1	1
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	0

Characteristic Table

A	В	Q ⁺
0	0	1
0	1	Q
1	0	\overline{Q}
1	1	0

Condensed Characteristic Table