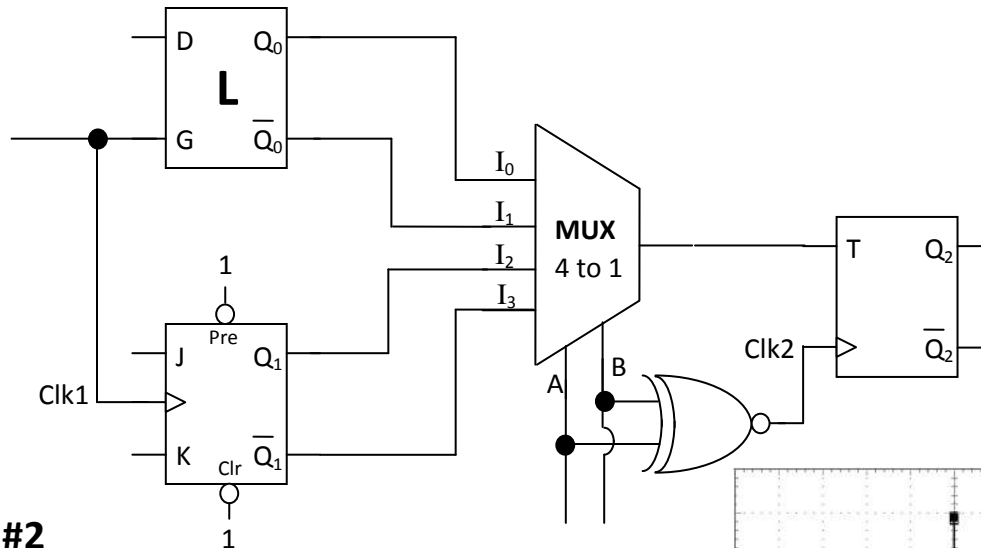


Sheet #4

Latches & Flip-flops

Exercise #1

Complete the timing diagram (in page 2) with Q_0 , $\overline{Q_0}$, Q_1 , $\overline{Q_1}$, T, Clk2 and Q_2 :



Exercise #2

Complete the timing diagram (in Page 3)

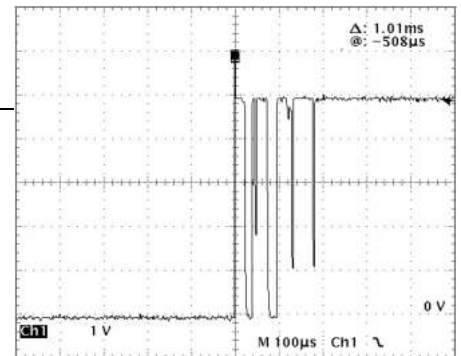
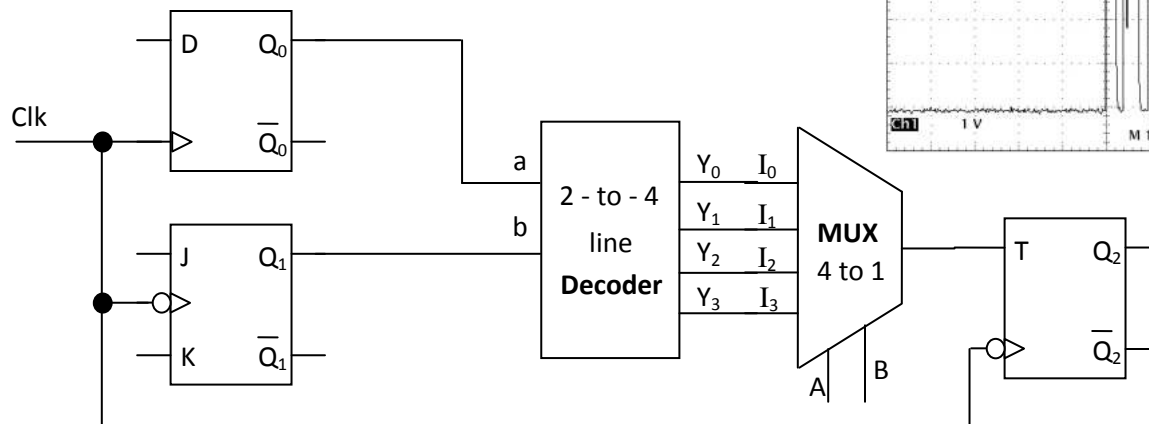
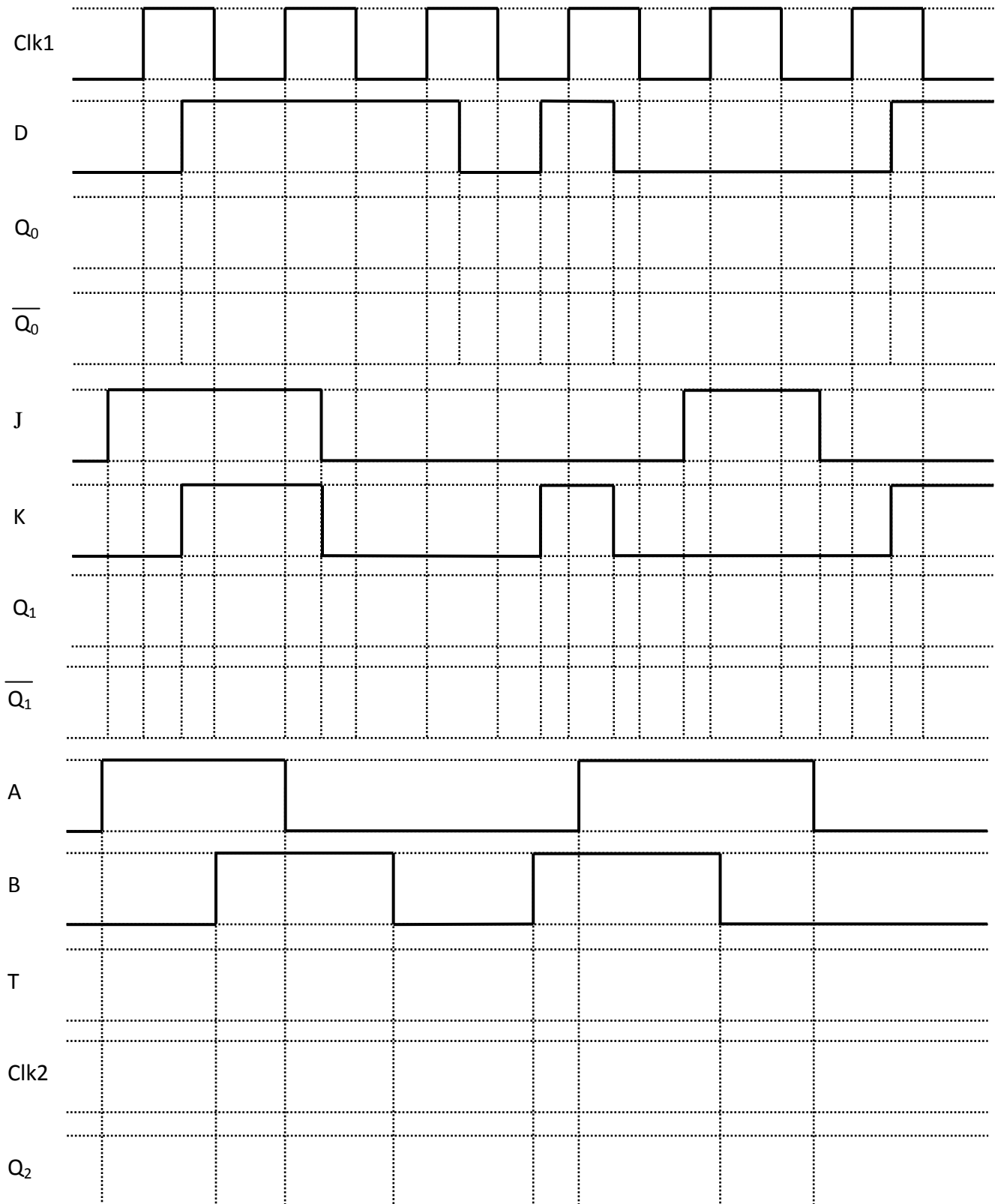


Figure 1

Exercise #3

Figure 1 illustrates the rebound phenomenon (seen on the oscilloscope), how can we eliminate this problem by an RS latch?

Timing diagram (for Exercise #1)



Timing diagram (for Exercise #2)

