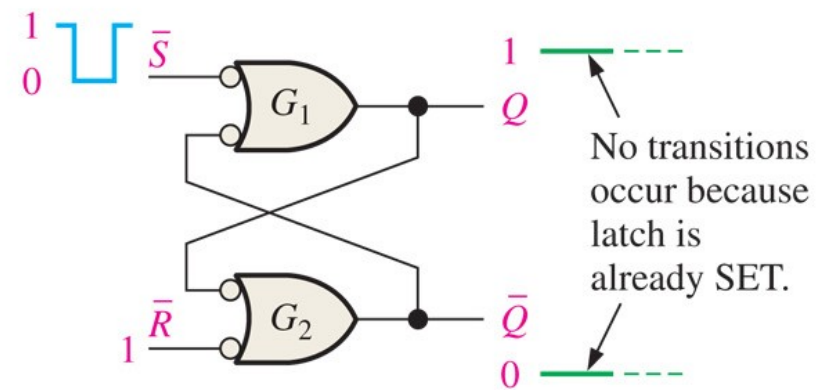
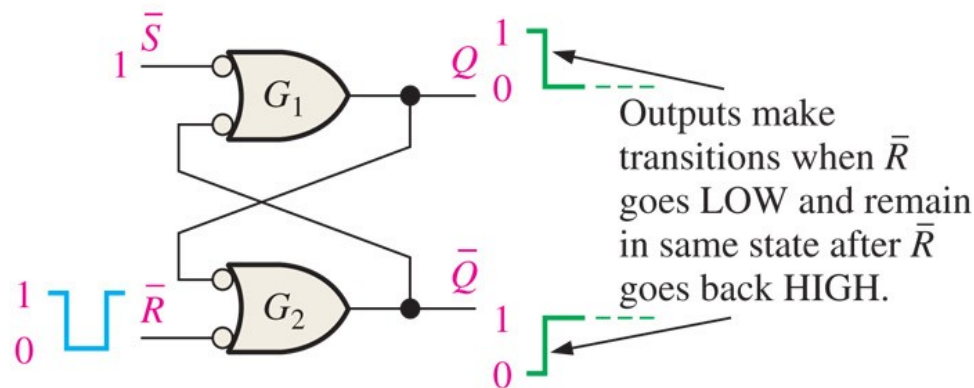


Latch starts out RESET ($Q = 0$).

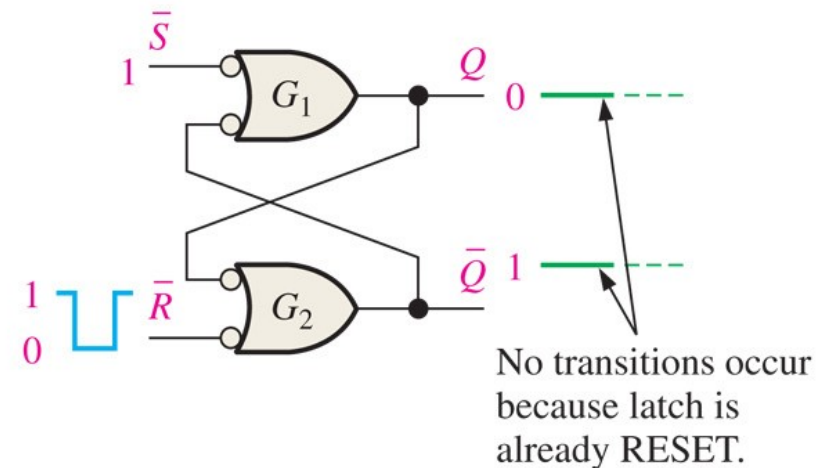


Latch starts out SET ($Q = 1$).

(a) Two possibilities for the SET operation

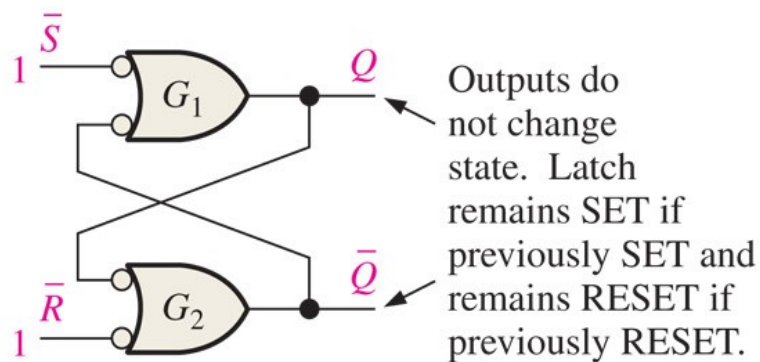


Latch starts out SET ($Q = 1$).



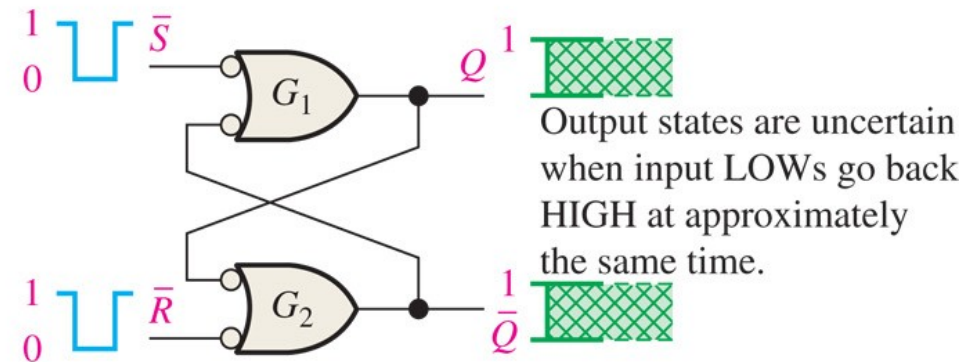
Latch starts out RESET ($Q = 0$).

(b) Two possibilities for the RESET operation



HIGHS on both inputs

(c) No-change condition



Simultaneous LOWs on both inputs

(d) Invalid condition