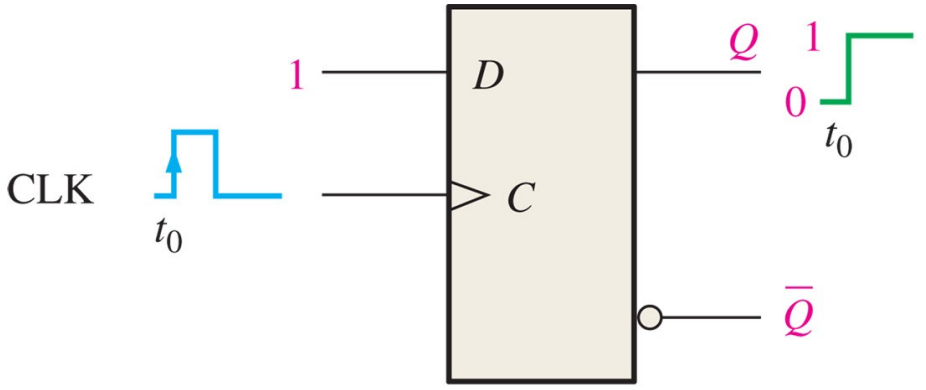
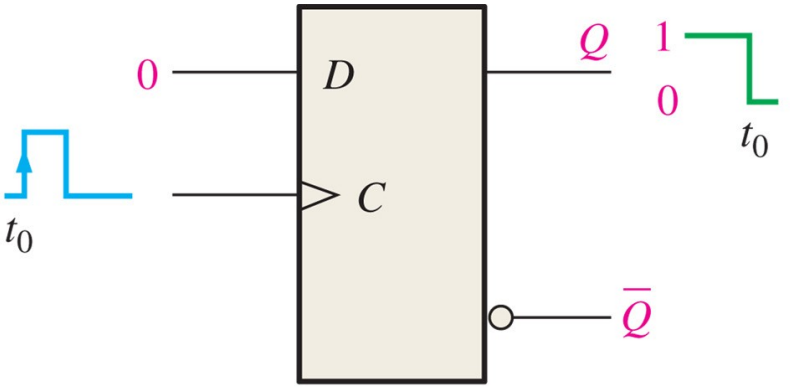


(a) $D = 1$ flip-flop SETS on positive clock edge. (If already SET, it remains SET.)



(b) $D = 0$ flip-flop RESETS on positive clock edge. (If already RESET, it remains RESET.)

TABLE 7–2

Truth table for a positive edge-triggered D flip-flop.

Inputs		Outputs		
D	**CLK**	***Q***	$\overline{Q}$	**Comments**
0	↑	0	1	RESET
1	↑	1	0	SET

↑ = clock transition LOW to HIGH