



(a) Circuit

	In	Q_1	Q_2	Q_3	$Q_4 = \text{Out}$
t_0	1	0	0	0	0
t_1	0	1	0	0	0
t_2	1	0	1	0	0
t_3	1	1	0	1	0
t_4	1	1	1	0	1
t_5	0	1	1	1	0
t_6	0	0	1	1	1
t_7	0	0	0	1	1

(b) A sample sequence

Figure 7.18 A simple shift register.