

		$Q_0B$			
		00	01	11	10
$Q_1$	0	0	0	1	1
	1	0	1	0	0

$$D_1 = Q_1'Q_0 + Q_1Q_0'B$$

		$Q_0B$			
		00	01	11	10
$Q_1$	0	0	1	0	0
	1	0	0	0	0

$$D_0 = Q_1'Q_0'B$$

		$Q_0B$			
		00	01	11	10
$Q_1$	0	0	1	0	0
	1	0	0	0	0

$$S = Q_1'Q_0'B$$