

BLG 231E Homewrok 5

1)

$$J_0 = \overline{X}Q_1$$

$$K_0 = X \text{ XNOR } Q_1$$

$$D_1 = X$$

$$Q_0^+ = \overline{X}Q_1\overline{Q_0} + X \oplus Q_1Q_0$$

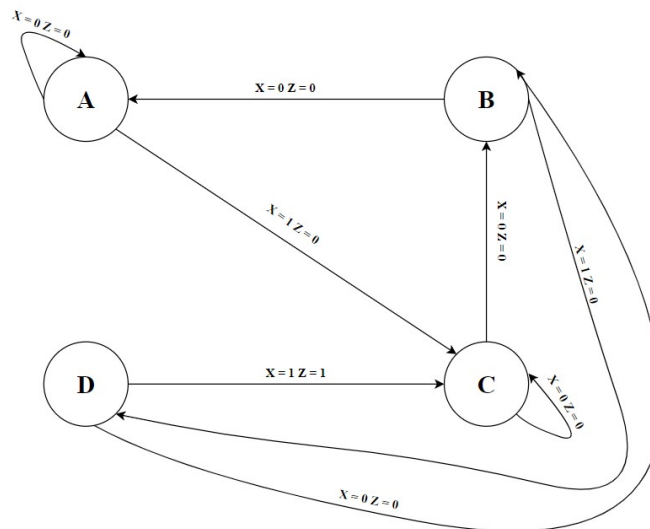
$$= \overline{X}Q_1\overline{Q_0} + \overline{X}Q_1Q_0 + X\overline{Q_1}Q_0$$

$$= \overline{X}Q_1 + X\overline{Q_1}Q_0$$

$$Q_1^+ = X$$

$$Z = XQ_1Q_0$$

$Q_1^+Q_0^+, Z$	X			
		0	1	
Q_1Q_0				
00		00, 0	10, 0	00: A
01		00, 0	11, 0	01: B
10		01, 0	10, 0	10: C
11		01, 0	10, 1	11: D



2) The sequence should be 1-0-1-1