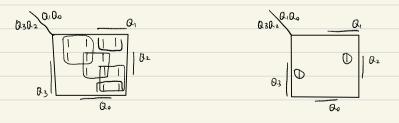


$$D_{3} = Q_{3} Q_{1}' Q_{0}' + Q_{3} Q_{2}' Q_{1}' + Q_{3}' Q_{2} Q_{1} Q_{0}'$$

$$= Q_{3} Q_{1}' (Q_{0}' + Q_{3}') + Q_{3}' Q_{2} Q_{1} Q_{0}'$$

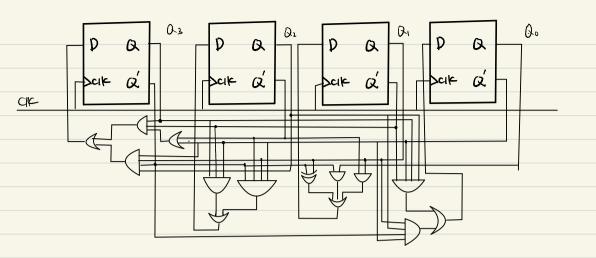
$$= Q_{3} Q_{1}' (Q_{0}' + Q_{3}') + Q_{3}' Q_{2} Q_{1} Q_{0}'$$

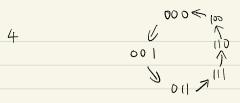


$$D_1 = Q_3'Q_1' + Q_3'Q_0 + Q_3Q_1 + Q_2'Q_1$$

$$= (Q_1 \oplus Q_3)' + Q_3'Q_0 + Q_2'Q_1'Q_0' + Q_3'Q_2Q_1Q_0'$$

$$= (Q_1 \oplus Q_3)' + Q_3'Q_0 + Q_2'Q_0' + Q_3'Q_1Q_0'$$





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