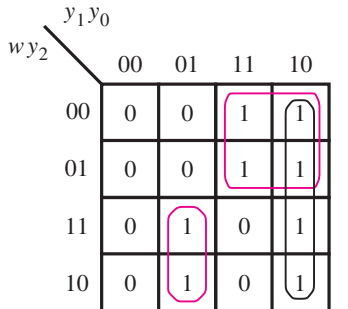
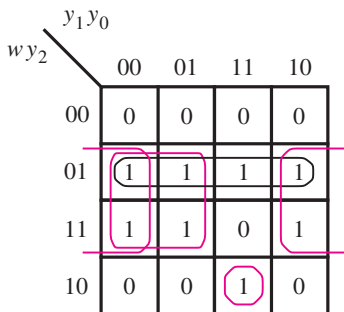


$$Y_0 = \bar{w}y_0 + w\bar{y}_0$$



$$Y_1 = \bar{w}y_1 + y_1\bar{y}_0 + w y_0\bar{y}_1$$



$$Y_2 = \bar{w}y_2 + \bar{y}_0y_2 + \bar{y}_1y_2 + w y_0y_1\bar{y}_2$$

**Figure 6.63** Karnaugh maps for D flip-flops for the counter.