Karnaugh's maps for Task 3

For the Moore's state machine implementation:

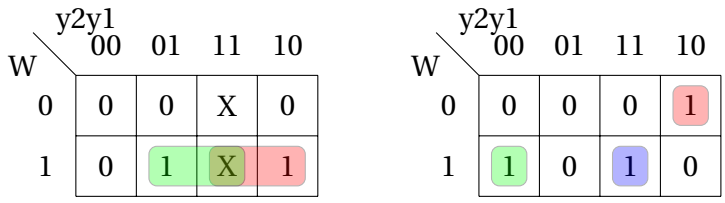

Figure 1: Maps for Y_2 (left) and Y_1 (right) functions.

Where $Y_2 = W \cdot y_1 + W \cdot y_2$, and $Y_1 = W \cdot \overline{y_2} \cdot \overline{y_1}$. From the transitions table, it is simple to see that $Z = y_1$.

And for the Mealy's state machine implementation:

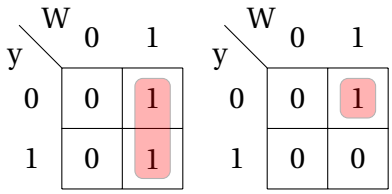

Figure 2: Maps for Y (left) and Z (right)

Where from the left map $Y = W$, and from the right table $Z = \overline{y} \cdot W$.