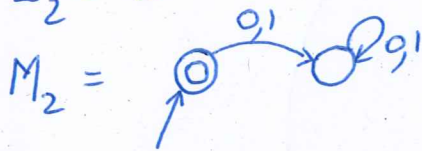


• $L_1 = \phi$ $\Sigma = \{0,1\}$



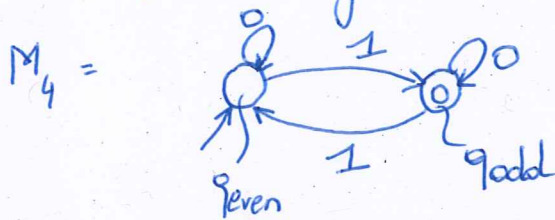
• $L_2 = \epsilon$



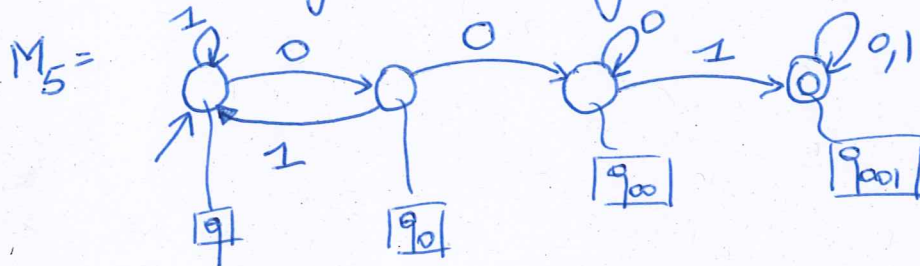
• $L_3 = \Sigma^*$



• $L_4 = \{ \text{all strings with odd number of ones} \}$



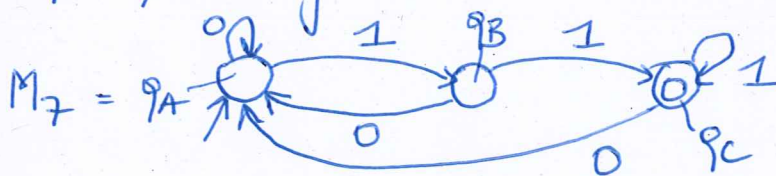
• $L_5 = \{ \text{all strings with substring "001"} \}$



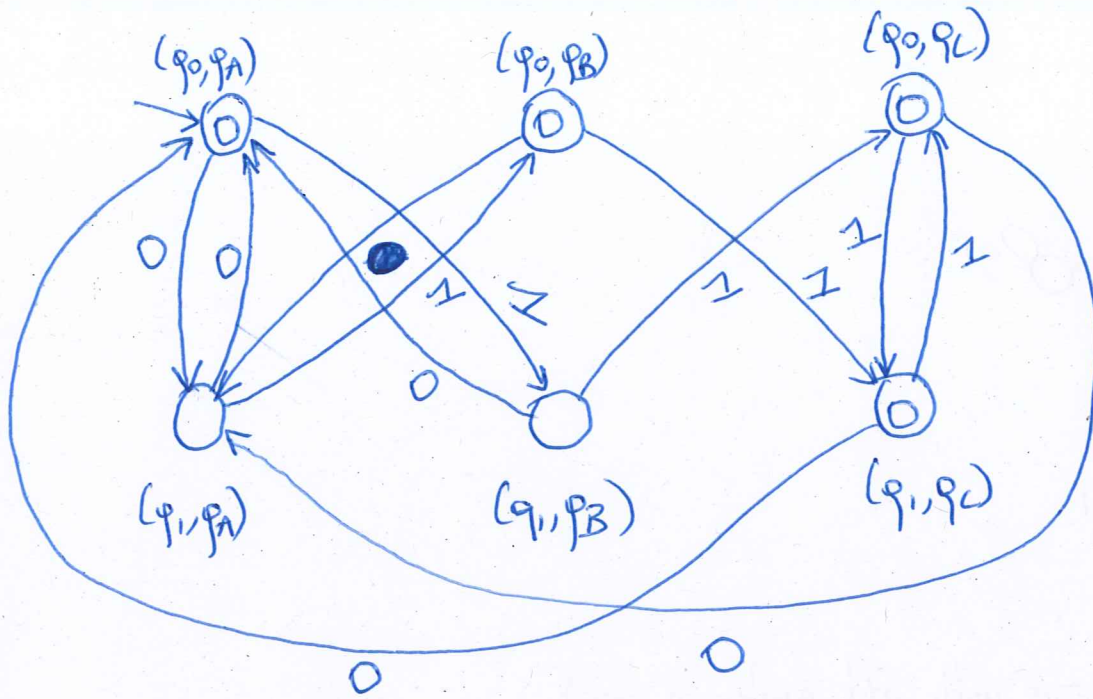
• $L_6 = \{ \text{all strings with an even length} \}$



• $L_7 = \{ \text{all strings which end with "11"} \}$



$L_6 \cup L_7 = \{ \text{all strings with an even length or ending with "11"} \}$



verify that "000" is rejected

- "0101" is accepted
- "111" is accepted.