

- 1) Obtain the flip-flop output Boolean functions equations on circuit shown in Fig. 1 ( $Q = T \oplus q$ ,  $Q(t+1) = T \oplus Q(t)$ )
- 2) Fill in the timing diagram shown in Fig. 2 using the Boolean functions that you obtained.
- 3) State the task performed by this circuit by using your finding.

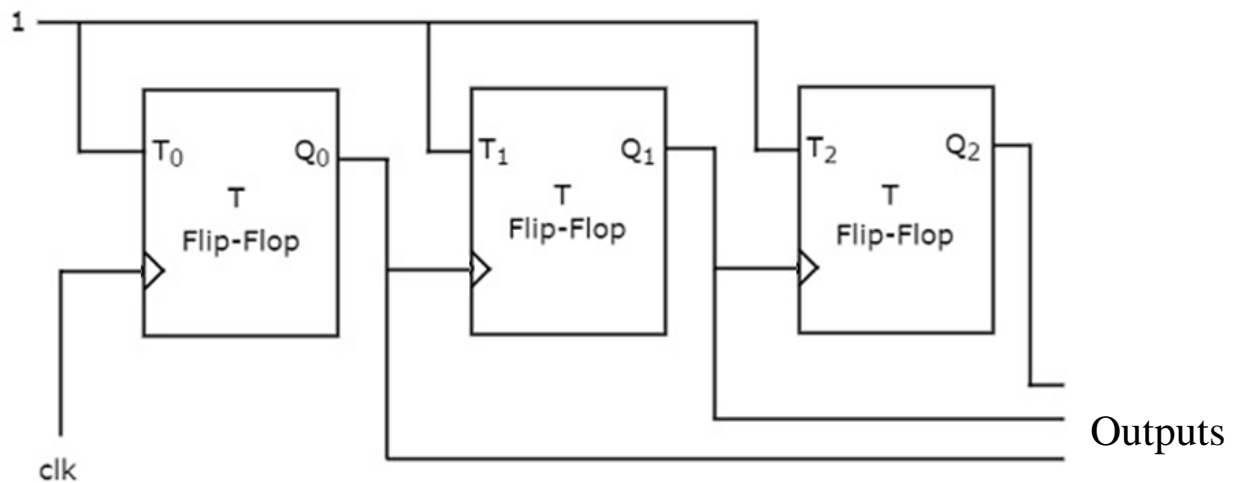


Figure 1

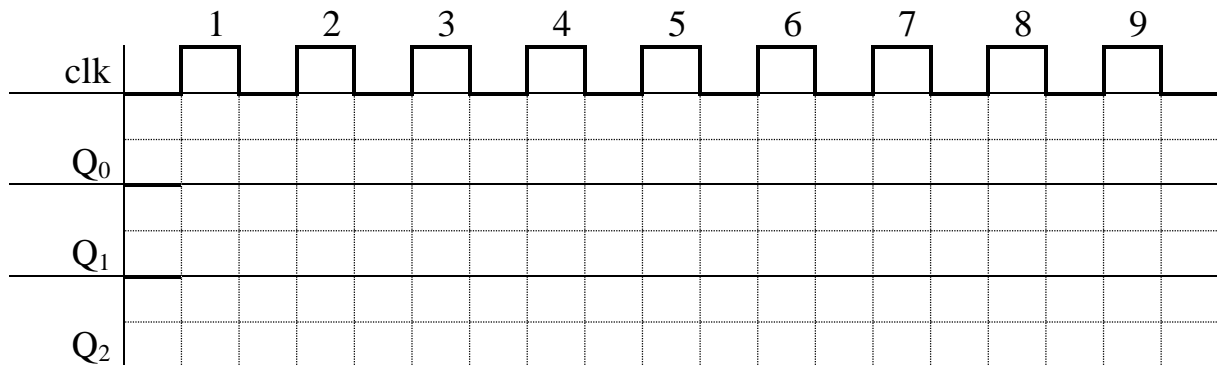


Figure 2