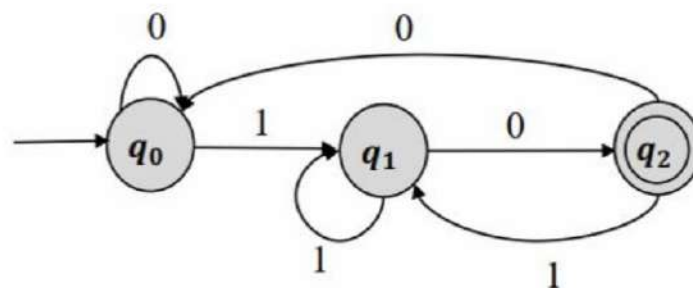


Exercise 1

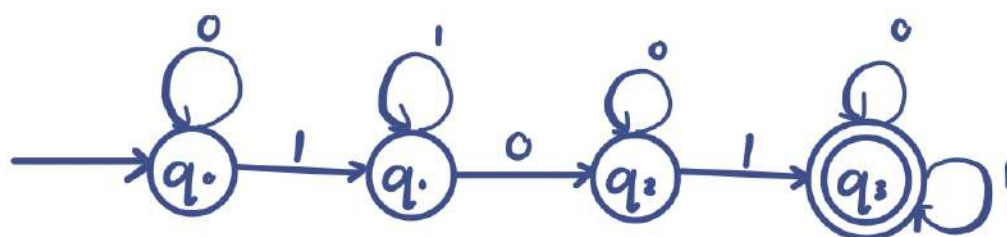


Based on the DFA in Example 5, which of the given strings are accepted by M ?

- i) 0111010 *accepted*
- ii) 00111 *not accepted*
- iii) 111010 *accepted*
- iv) 0100 *not accepted*
- v) 1110 *accepted*

Exercise 2

Construct a state transition diagram of a DFA M with the input set $\{0,1\}$ such that M accepts only the string 101.



Exercise 3

Redraw and complete the transition diagram for the above system

