

Q.1. Design a DFA over $\Sigma = \{0, 1\}$ which will accept the strings containing 101 as a substring.

Q.2. Design a DFA over $\Sigma = \{a, b\}$ which will accept the strings containing abb as a substring.

Q.3. Design a DFA over $\Sigma = \{a, b\}$ which will accept the strings containing baab as a substring.

Q.4. Design a DFA over $\Sigma = \{0, 1\}$ which will accept the strings containing 0110 as a substring.

Q.5. Design a DFA over $\Sigma = \{a, b\}$ which will accept the strings ending with abb.

Q.6. Design a DFA over $\Sigma = \{0, 1\}$ which will accept the strings ending with 110.

Q.7. Design a DFA over $\Sigma = \{a, b\}$ which will accept the strings starting with bab.

Q.8. Design a DFA over $\Sigma = \{0, 1\}$ which will accept the strings starting with 0011.

Q.9. Design a DFA to accept the language $L = \{ w \mid w \text{ is of even length \& begins with } 01 \}$

Q.10. Design a DFA ^{over $\Sigma = \{0,1\}$} to accept set of all strings with exactly 3 consecutive 0's.

Q.11. Design a DFA over $\Sigma = \{0,1\}$ to accept set of all strings ~~with~~ containing exactly 3 0's.

Q.12. Design a DFA over $\Sigma = \{0,1\}$ to accept set of all strings containing at least 3 0's.

Q.14. Design a DFA over $\Sigma = \{0,1\}$ to accept set of all strings containing at most 3 0's.