PES UNIVERSITY, Bangalore

(Established under Karnataka Act No. 16 of 2013)

Department of Computer Science & Engineering

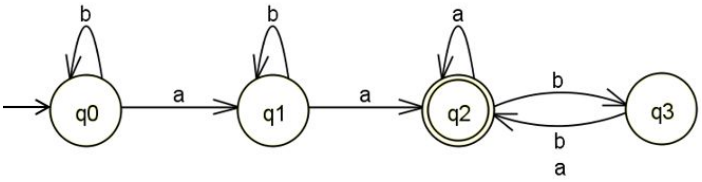
Automata Formal Languages & Logic

Q&A

Deterministic Finite Acceptor

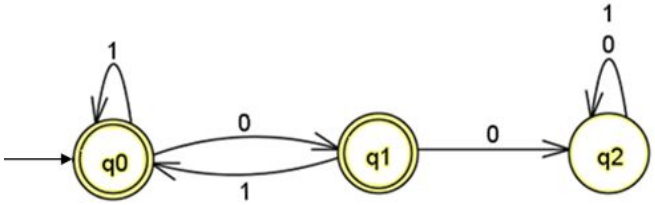
11) Construct a DFA that accepts strings containing at least two *a* s and ending with an even number of *b* s.

Solution:



12) Construct a DFA that accepts Binary strings with no consecutive 0 s.

Solution:



13) Construct a DFA that accepts strings over {*a*, *b*} in which either all even-numbered symbols are *a* or all odd-numbered symbols are *b*. Show the computation for the string w_1 = *aababaa* and for w_2 = *babaab*.

Solution:

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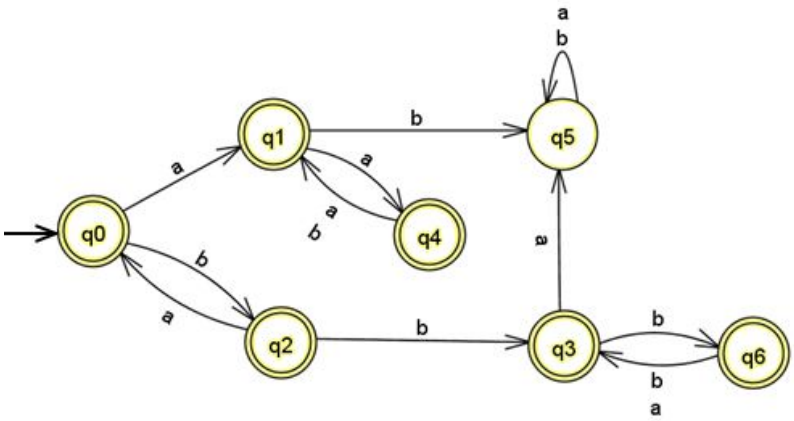

14) Construct a DFA that accepts the set of all strings that are palindromes of length 4. The alphabet is {*a*, *b*, *c*}.

Solution: