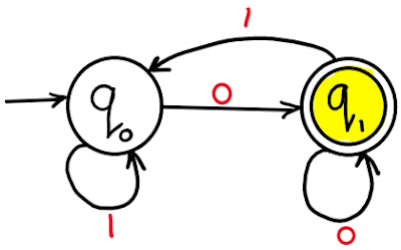
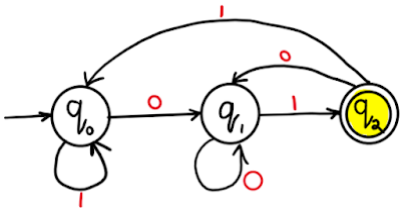
Example 1: Draw a DFA for the language accepting strings ending with ‘0’ over input alphabets ∑={0, 1} ?

Solution:



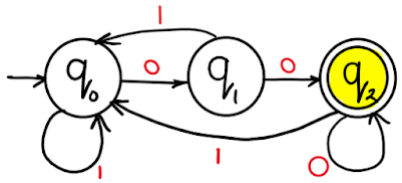
Example 2: Draw a DFA for the language accepting strings ending with ‘01’ over input alphabets ∑={0, 1} ?

Solution:



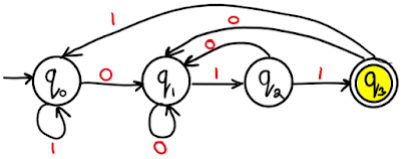
Example 3: Draw a DFA for the language accepting strings ending with ‘00’ over input alphabets ∑={0, 1} ?

Solution:



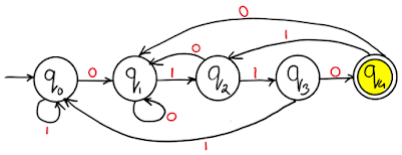
Example 4: Draw a DFA for the language accepting strings ending with ‘011’ over input alphabets ∑ = {0, 1} ?

Solution:



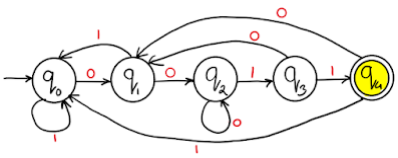
Example 5: Draw a DFA for the language accepting strings ending with ‘0110’ over input alphabets ∑ = {0, 1} ?

Solution:



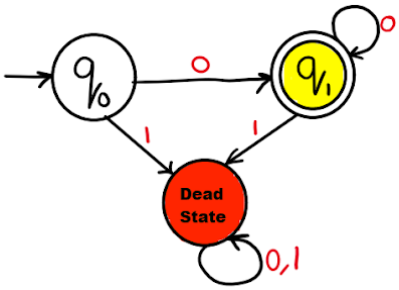
Example 6: Draw a DFA for the language accepting strings ending with ‘0011’ over input alphabets ∑ = {0, 1} ?

Solution:



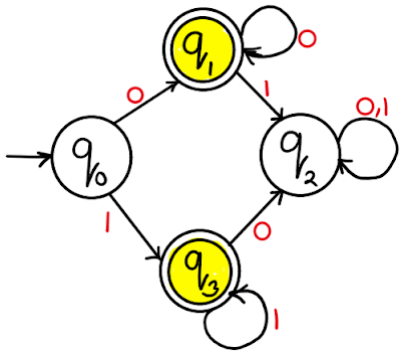
Example 7: Draw a DFA for the language accepting strings with ‘0’ only over input alphabets ∑={0, 1} ?

Solution:



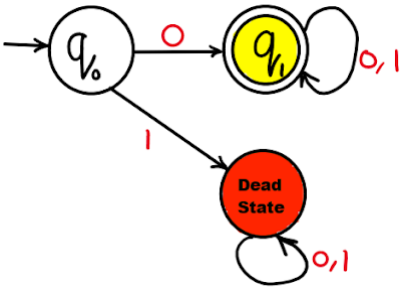
Example 8: Draw a DFA for the language accepting strings with ‘0’ and ‘1’ only over input alphabets ∑={0, 1} ?

Solution:



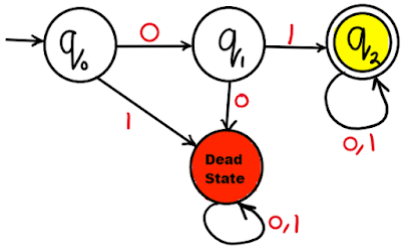
Example 9: Draw a DFA for the language accepting strings starting with ‘0’ over input alphabets ∑={0, 1} ?

Solution:



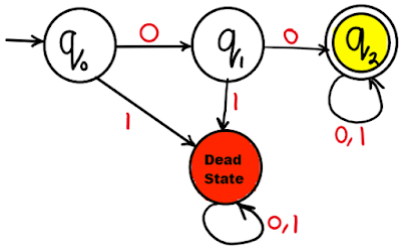
Example 10: Draw a DFA for the language accepting strings starting with ‘01’ over input alphabets ∑={0, 1} ?

Solution:



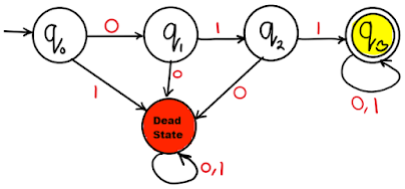
Example 11: Draw a DFA for the language accepting strings starting with ‘00’ over input alphabets ∑={0, 1} ?

Solution:



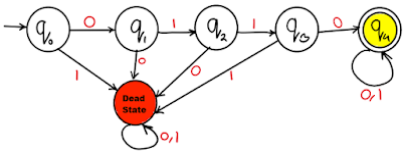
Example 12: Draw a DFA for the language accepting strings starting with ‘011’ over input alphabets ∑ = {0, 1} ?

Solution:



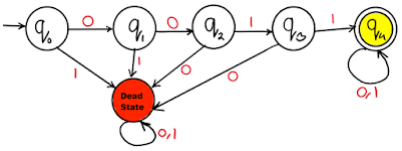
Example 13: Draw a DFA for the language accepting strings starting with ‘0110’ over input alphabets ∑ = {0, 1} ?

Solution:



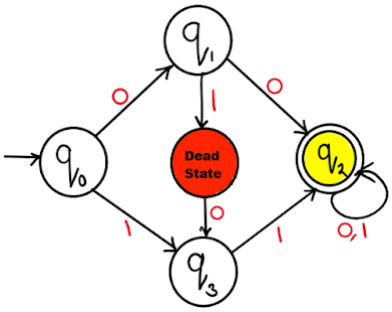
Example 14: Draw a DFA for the language accepting strings starting with ‘0011’ over input alphabets ∑ = {0, 1} ?

Solution:



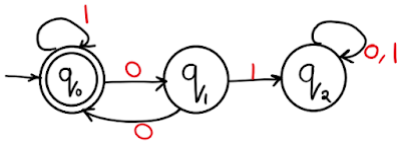
Example 15: Draw a DFA for the language accepting strings starting with ‘00’ or ’11’ over input alphabets ∑ = {0, 1} ?

Solution:



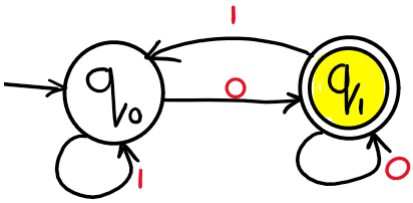
Example 16: Draw a DFA for the language accepting strings without substring ‘00’ over input alphabets ∑ = {0, 1} ?

Solution:



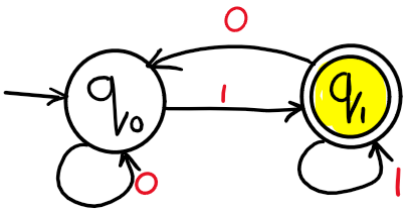
Example 17: Draw a DFA for the language accepting even binary numbers strings over input alphabets ∑ = {0, 1} ?

Soluntion:



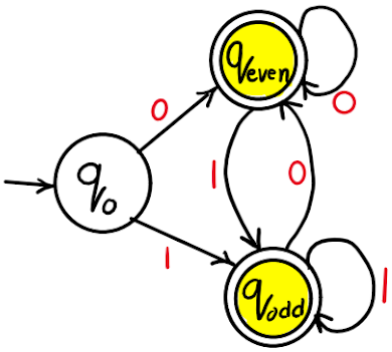
Example 18: Draw a DFA for the language accepting odd binary numbers strings over input alphabets ∑ = {0, 1} ?

Solution:



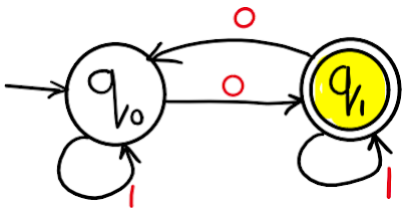
Example 19: Draw a DFA for the language accepting odd or even binary numbers strings over input alphabets ∑ = {0, 1} ?

Solution:



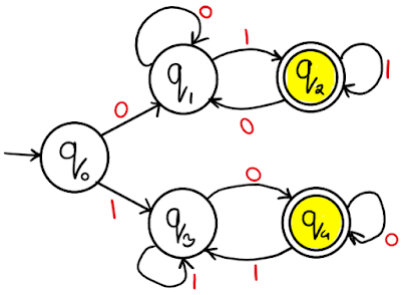
Example 20: Draw a DFA for the language accepting strings containg even number of total zeros over input alphabets ∑ = {0, 1} ?

Solution:



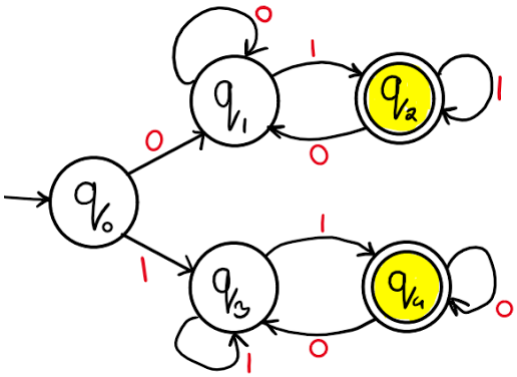
Example 21: Draw a DFA for the language accepting strings starting and ending with different characters over input alphabets ∑ = {0, 1} ?

Soluiton:



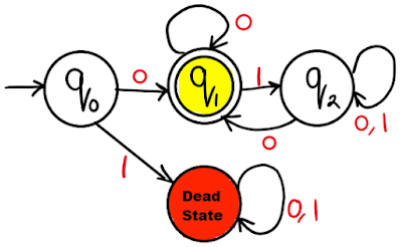
Example 22: Draw a DFA for the language accepting strings starting and ending with same character over input alphabets ∑ = {0, 1} ?

Solution:



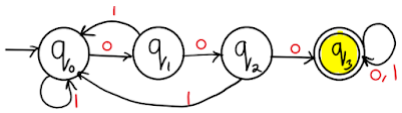
Example 23: Draw a DFA for the language accepting strings starting and ending with '0' always over input alphabets ∑ = {0, 1} ?

Solution:



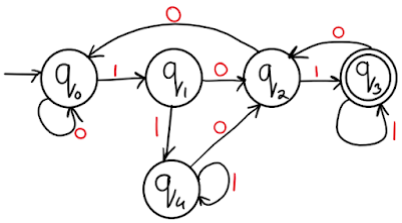
Example 24: Draw a DFA for the language accepting strings containing three consecutives '0' always over input alphabets ∑ = {0, 1} ?

Solution:



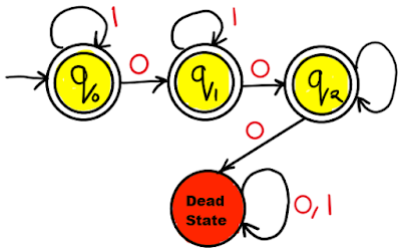
Example 25: Draw a DFA for the language accepting strings such that each '0' is immediately preceded and followed by '1' over input alphabets ∑ = {0, 1} ?

Solution:



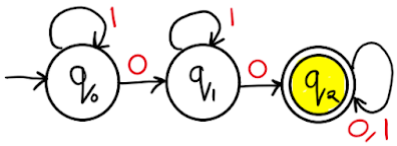
Example 26: Draw a DFA for the language accepting strings containing at most two '0' over input alphabets ∑ = {0, 1} ?

Solution:



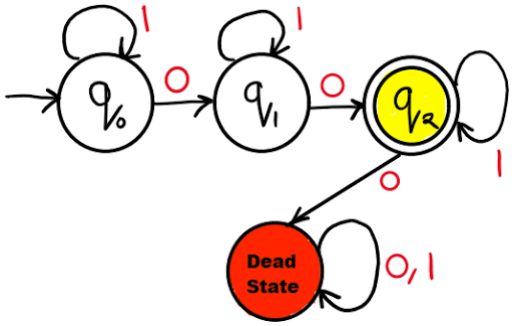
Example 27: Draw a DFA for the language accepting strings containing at least two ‘0’ over input alphabets ∑ = {0, 1} ?

Solution:



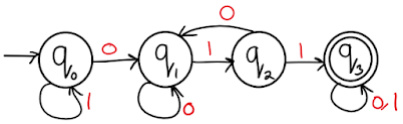
Example 28: Draw a DFA for the language accepting strings containing exactly two ‘0’ over input alphabets ∑ = {0, 1} ?

Solution:



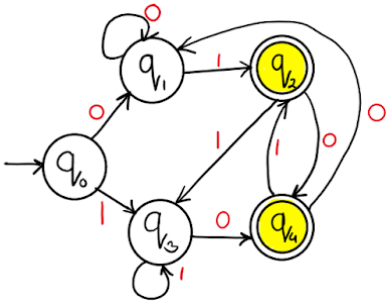
Example 29: Draw a DFA for the language accepting strings with ‘011’ as substring over input alphabets ∑ = {0, 1} ?

Solution:



Example 30: Draw a DFA for the language accepting strings ending in either ’01’, or ’10’ over input alphabets ∑ = {0, 1} ?

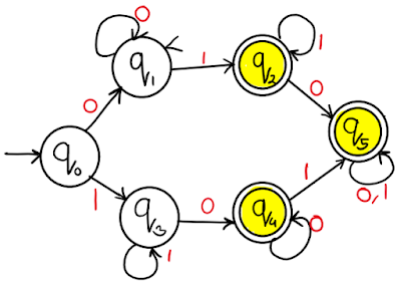
Solution:



Example 31: Draw a DFA for the language accepting strings containing ’01’, or ’10’ as

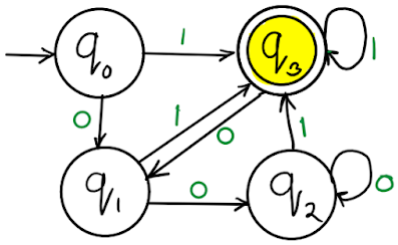
substring over input alphabets ∑ = {0, 1} ?

Solution:



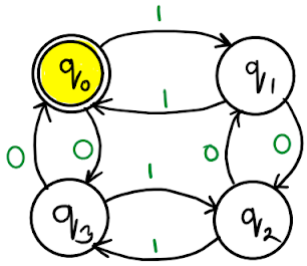
Example 32: Draw DFA that accepts any string which ends with 1 or it ends with an even number of 0's following the last 1. Alphabets are {0,1}.

Solution:



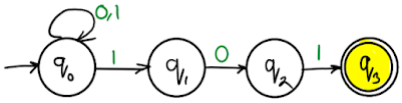
Example 33: Construct DFA accepting set of all strings containing even no. of a's and even no. of b's over input alphabet {a,b}.

Solution:



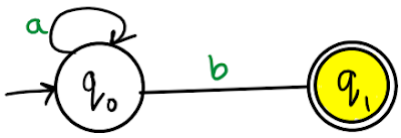
Example 34: Give DFA accepting the language over alphabet {0,1} such that all strings of 0 and 1 ending in 101.

Solution:



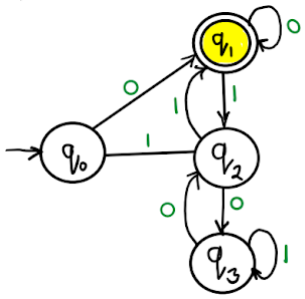
Example 35: Construct DFA for anb | n>=0.

Solution:



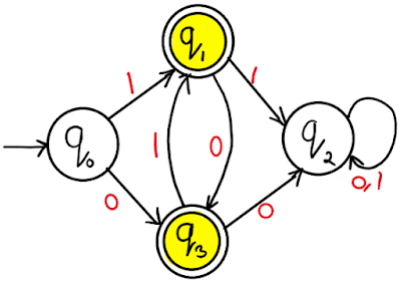
Example 36: construct DFA for binary integer divisible by 3 ?

Solution:



Example 37: Draw a DFA for the language accepting strings containing neither ’00’, nor ’11’ as substring over input alphabets ∑ = {0, 1} ?

Solution:



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