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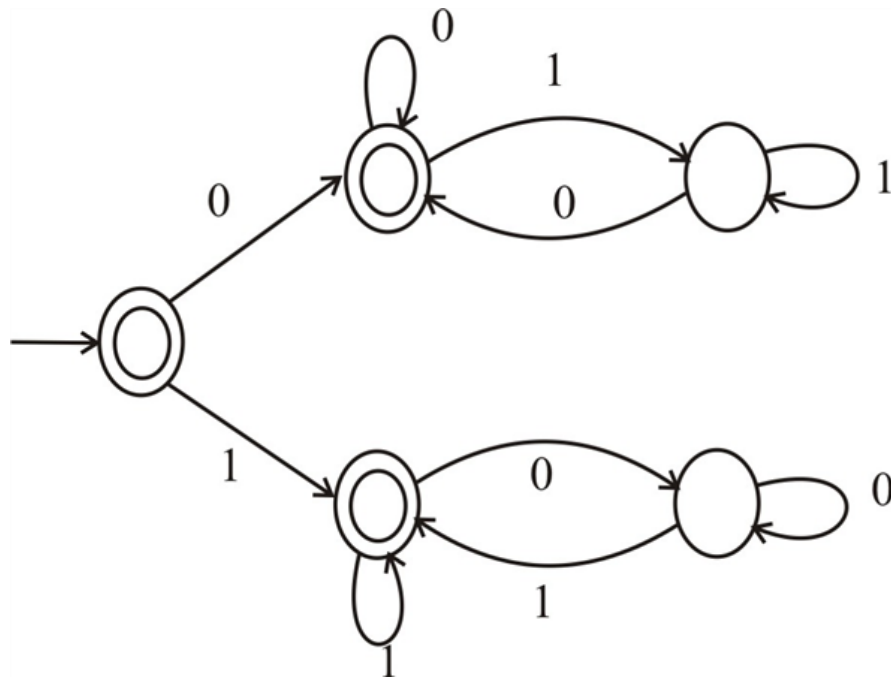
Given language is

$D = \{w \mid w \text{ contains an equal number of occurrences of the substring } 01 \text{ and } 10\}$ over the alphabet $\Sigma = \{0,1\}$

We have to prove that D is a regular language.

A language is regular if some DFA recognizes it.

The following DFA recognizes the language D .



This DFA recognize the language D .

Thus D is regular