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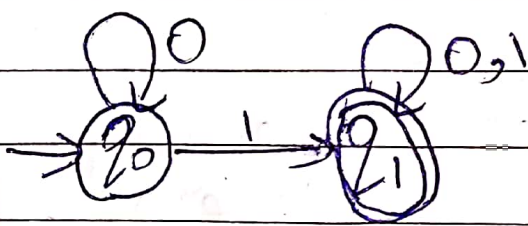
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### Sec-3

(Q1) Design a FA which accepts set of string containing exactly 1's in every string over  $\Sigma = \{0, 1\}$

Sol<sup>n</sup>

language should consist 1's i.e, it will be  $\{1\}, \{0,1\}, \{1,1\}, \{0,0,1\}, \{1,0,1\}, \{0,0,0,1\}$  ... etc.



$q_0 = \text{initial state} = \{q_0\}$   
 $\Sigma = \{0, 1\}$   
 $\{q_1\} = \text{final state}$