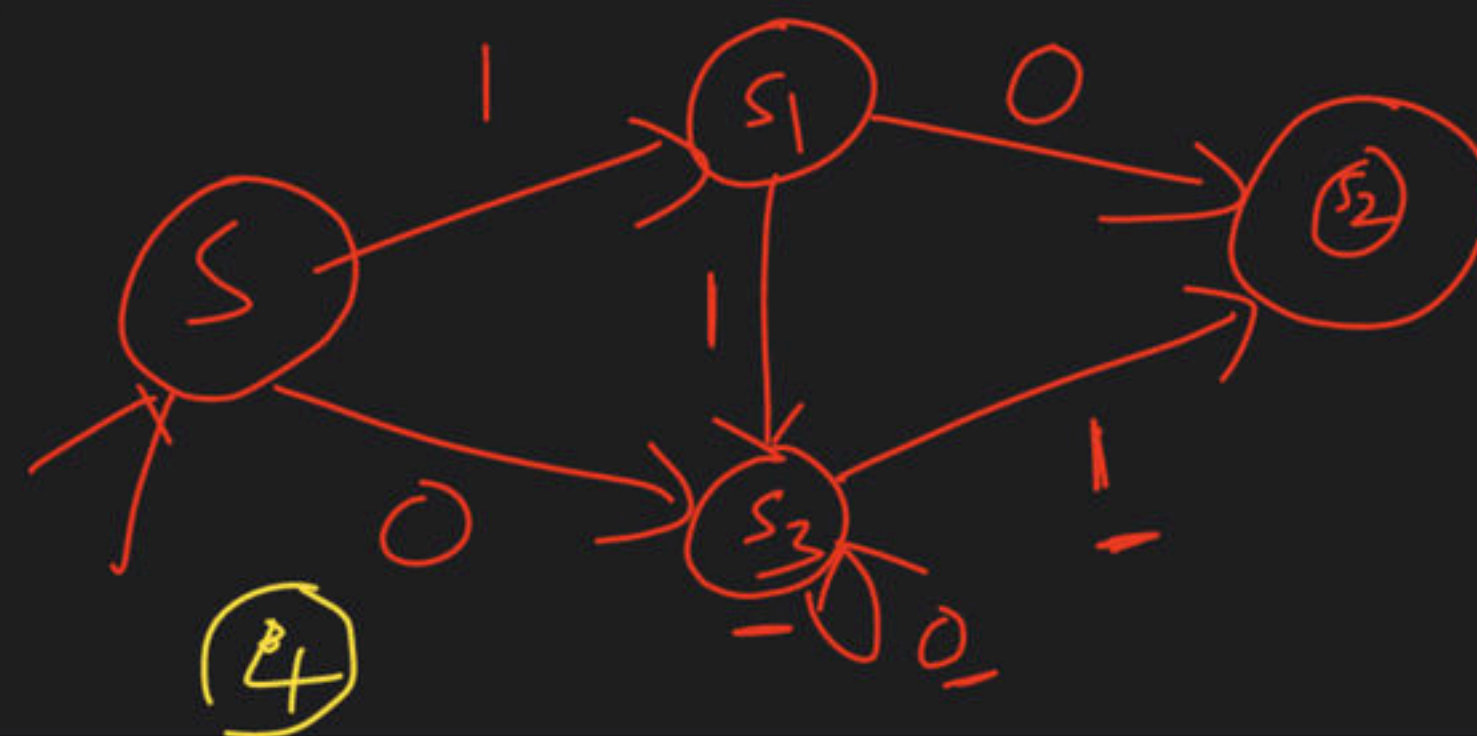
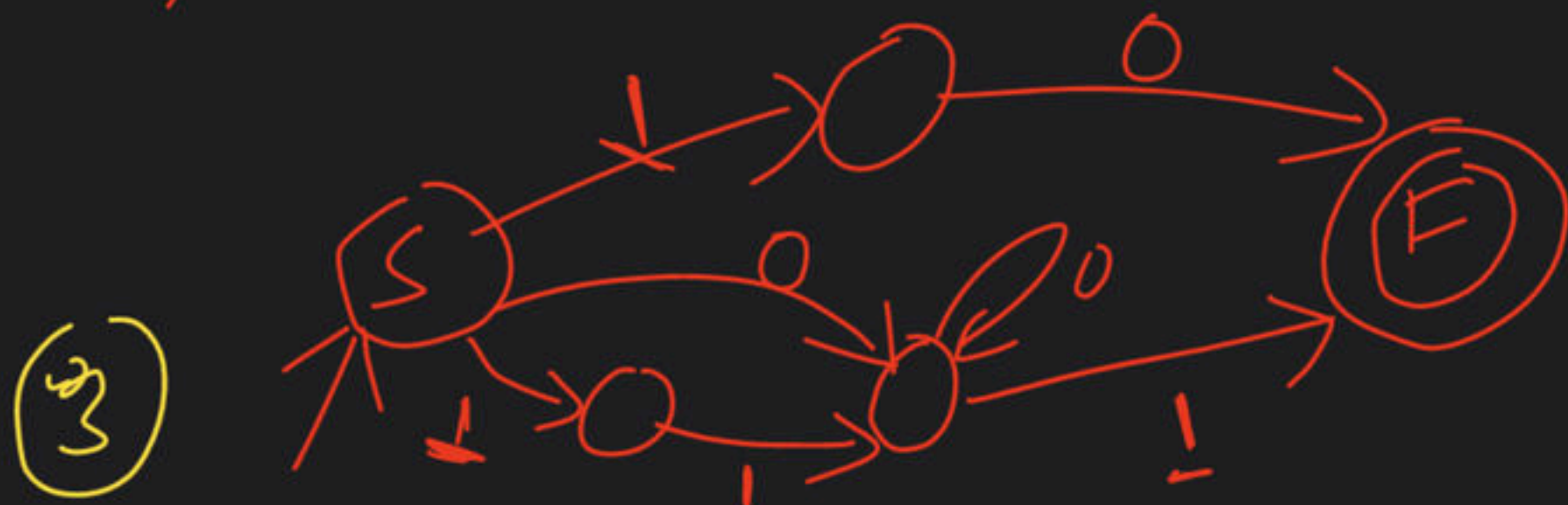
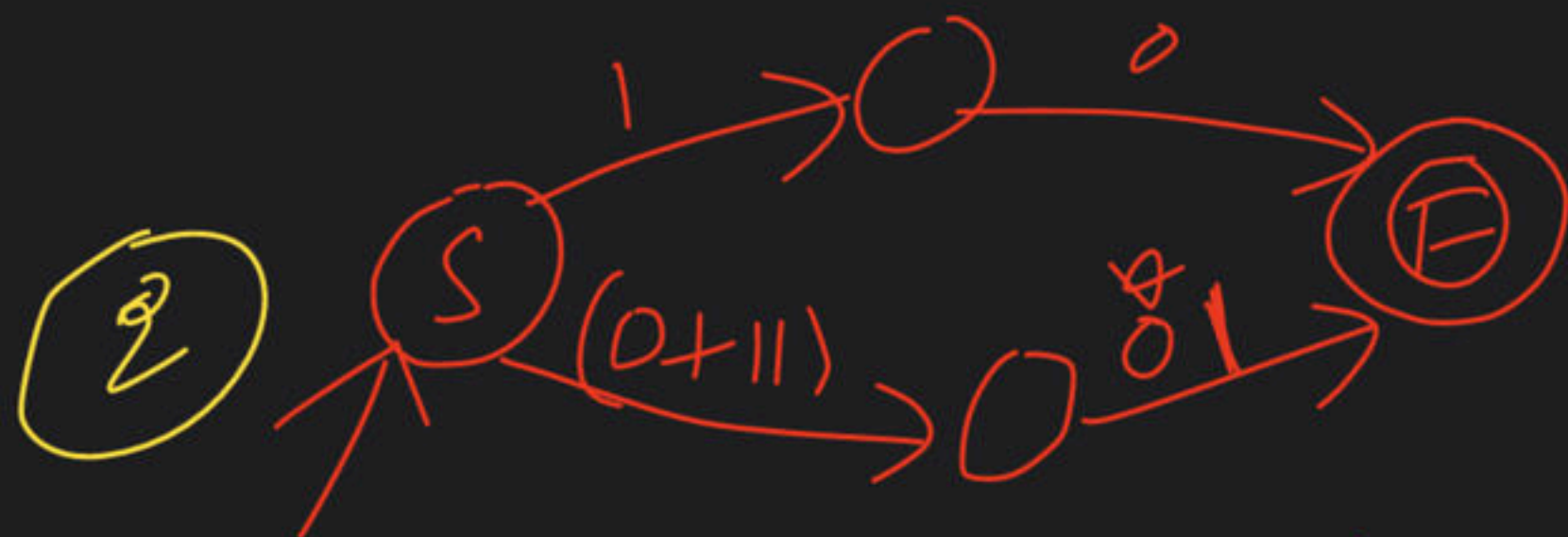
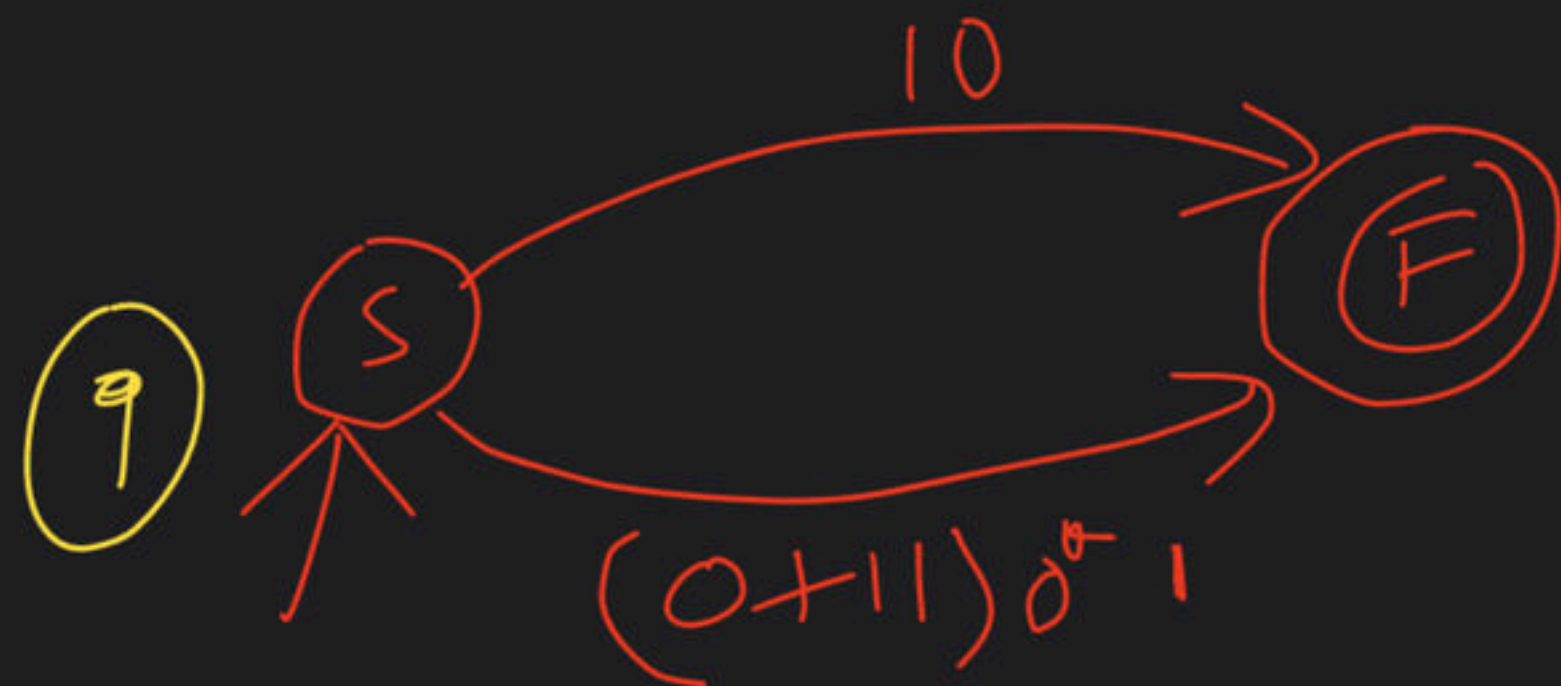




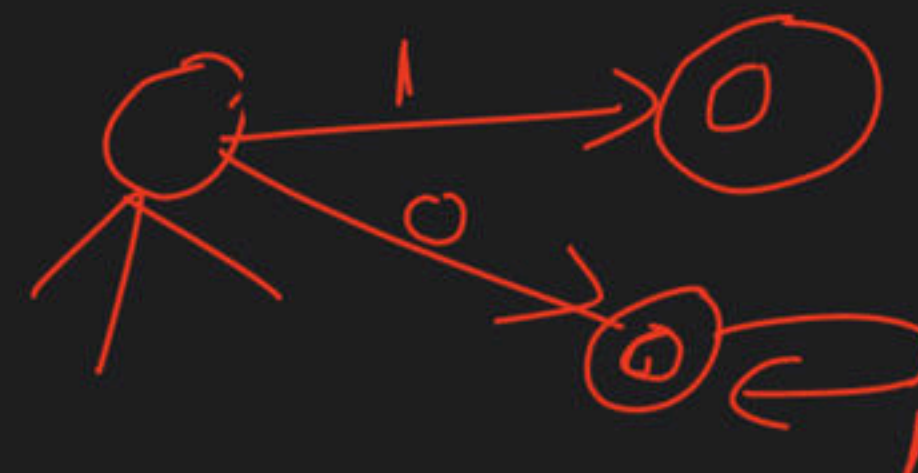
CFG and PDA - II

Complete Course on Theory of Computation

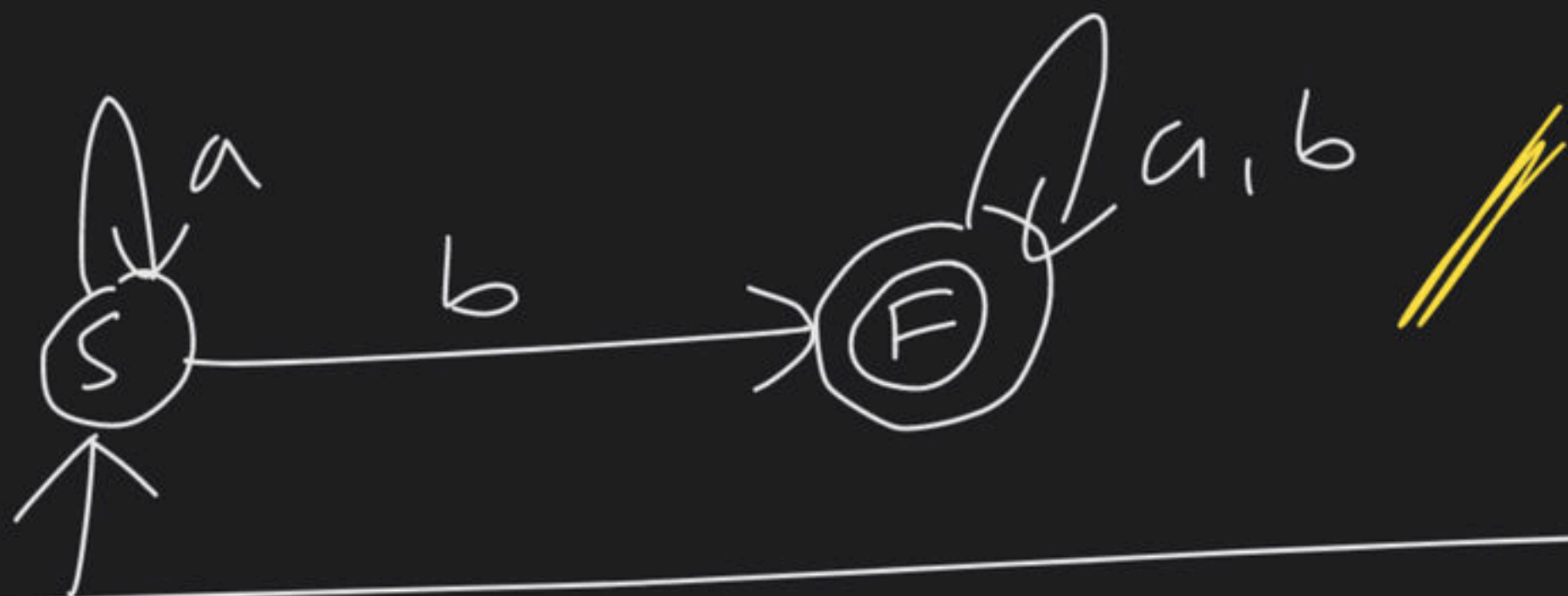
$10 + (0+11)^* 0^* 1$ \Rightarrow ϵ -Free NFA



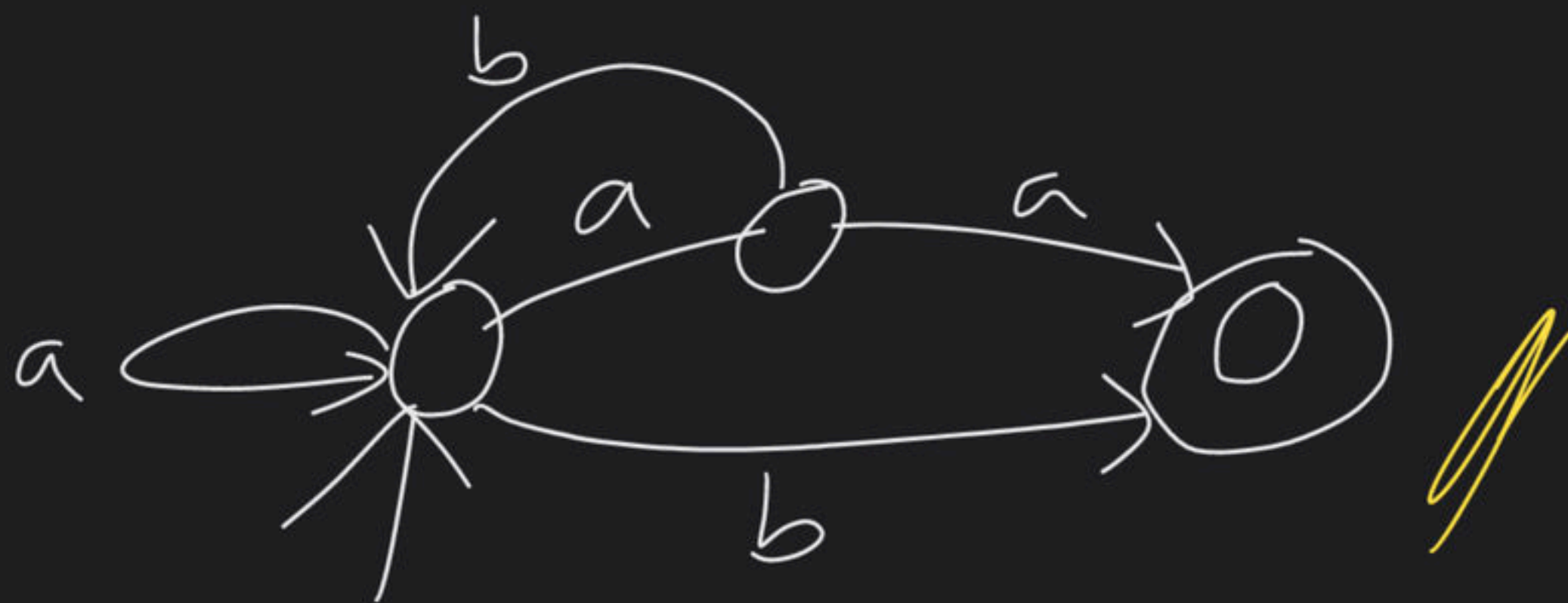
$01^* + 1$ \Rightarrow



book
DFA $\Rightarrow a^* b (a+b)^*$



lebv
NFA $\Rightarrow (ab+ba)^* (aa+bb)$



NFA \rightarrow DFA

DFA \rightarrow m-DFA

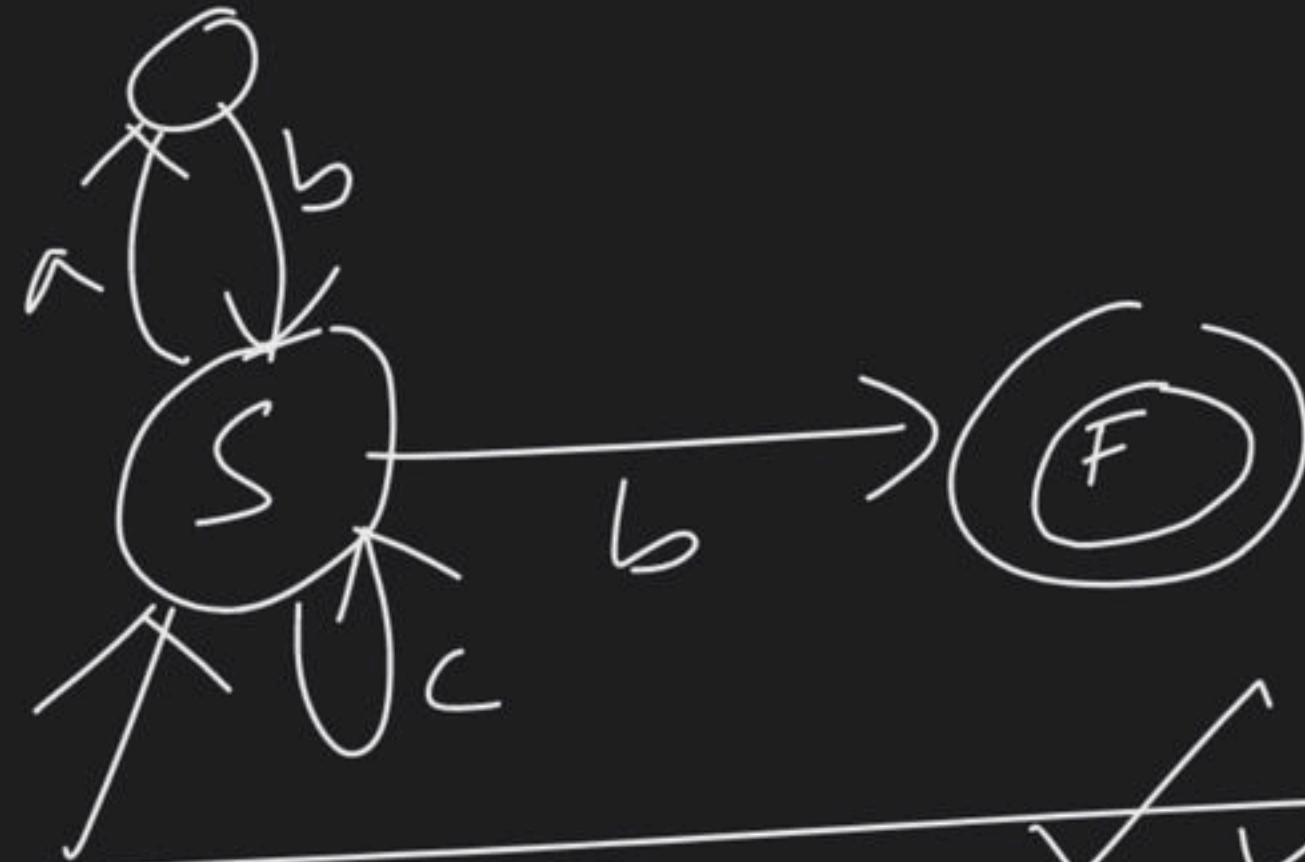
FA \rightarrow RE

RE \rightarrow FA

E-NFA \rightarrow NFA

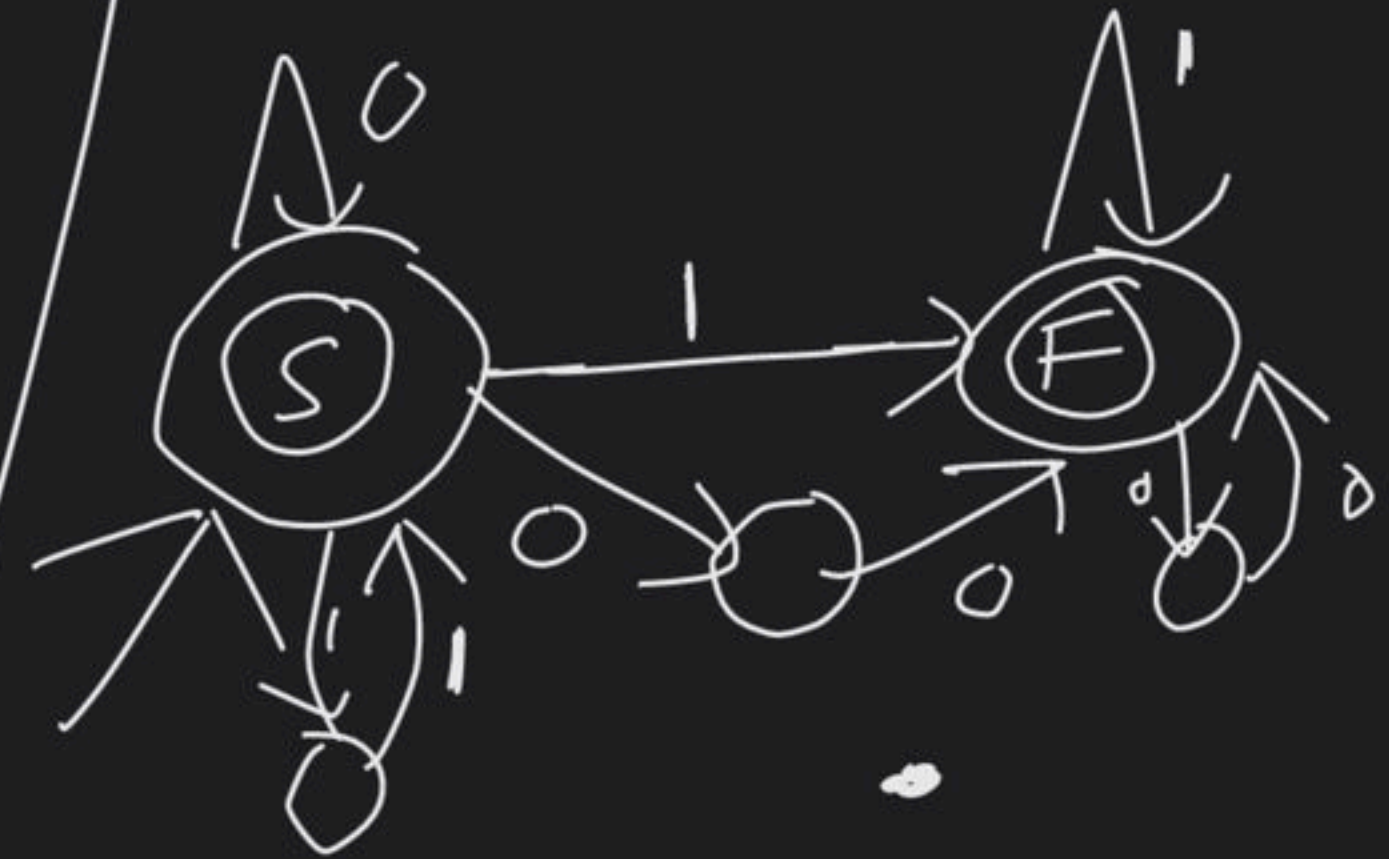
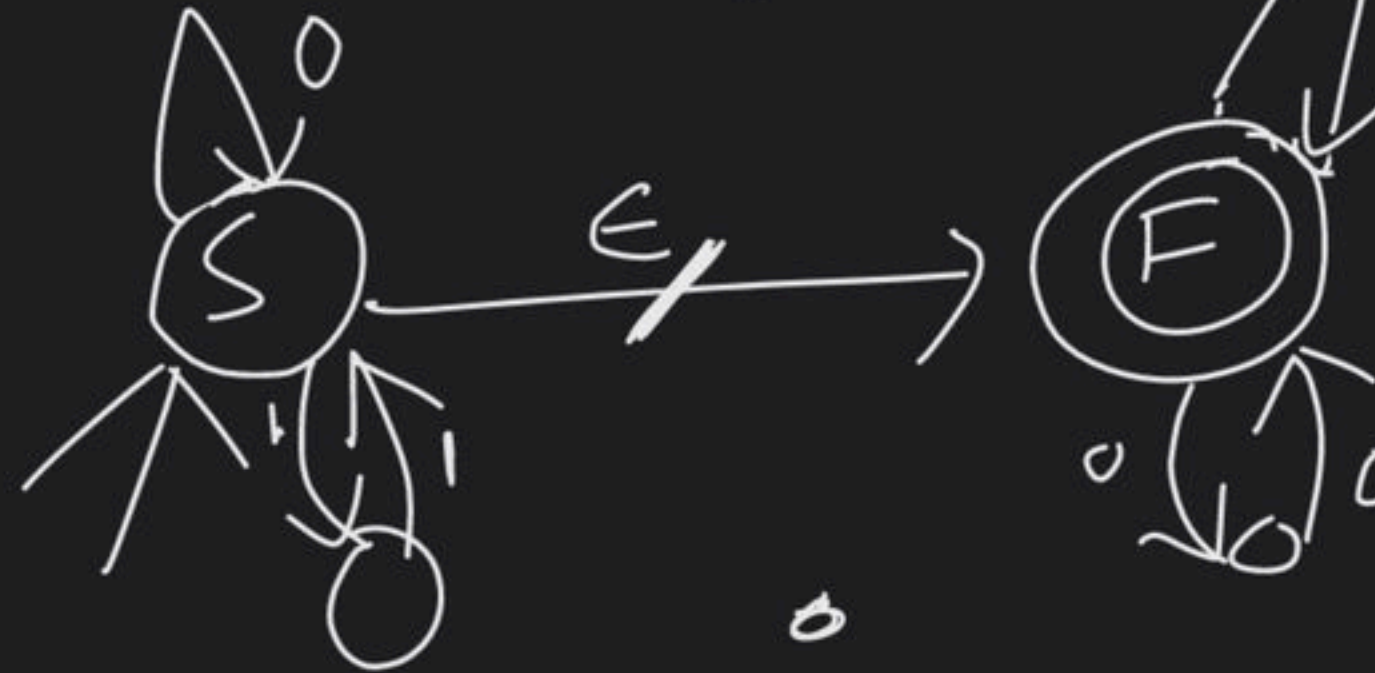
E-NFA \rightarrow DFA

NFA $\Rightarrow (ab+cb)^+b$



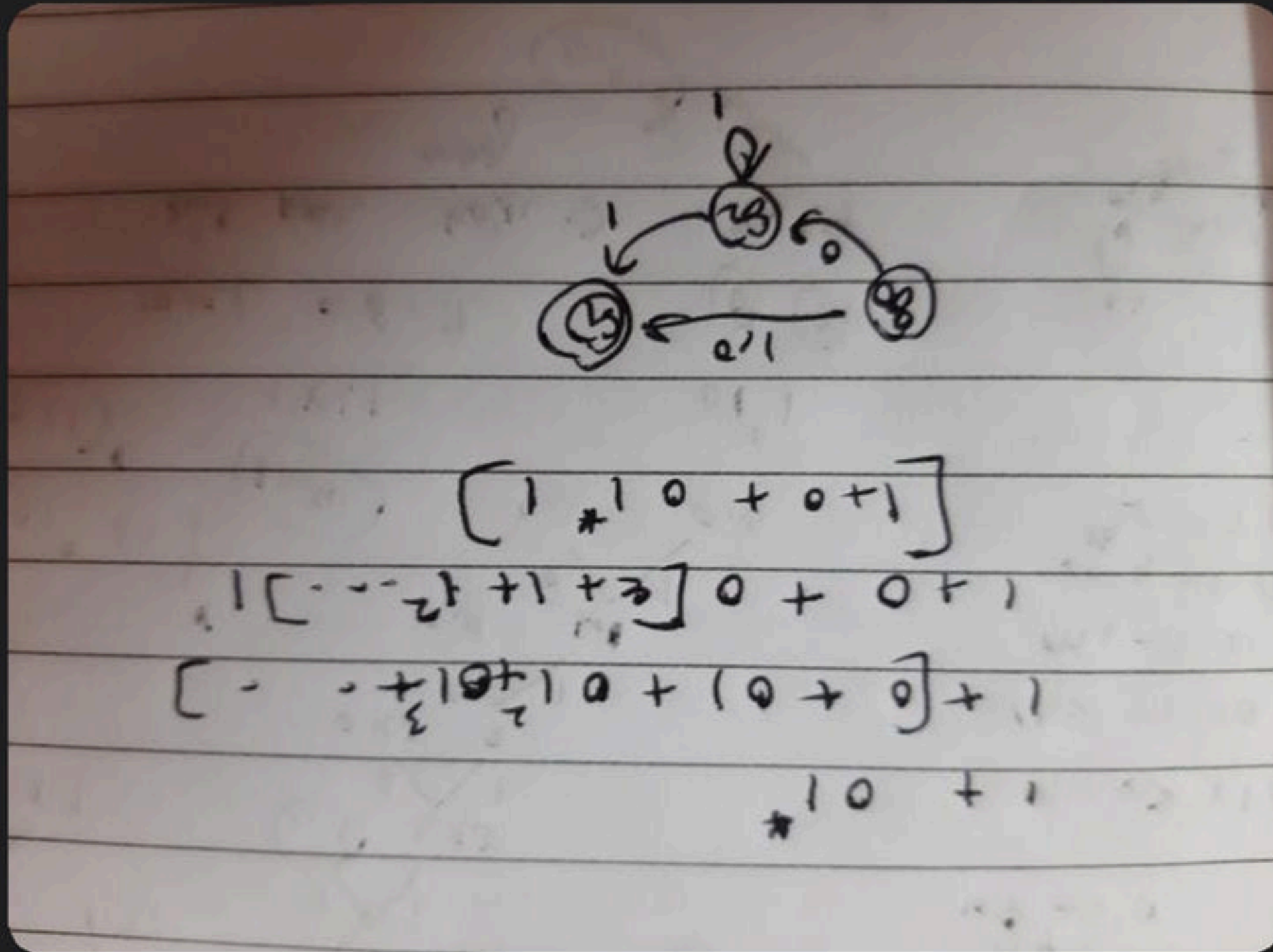
NFA $\Rightarrow \underline{(0+11)^+}$ ~~$(1+00)^+$~~

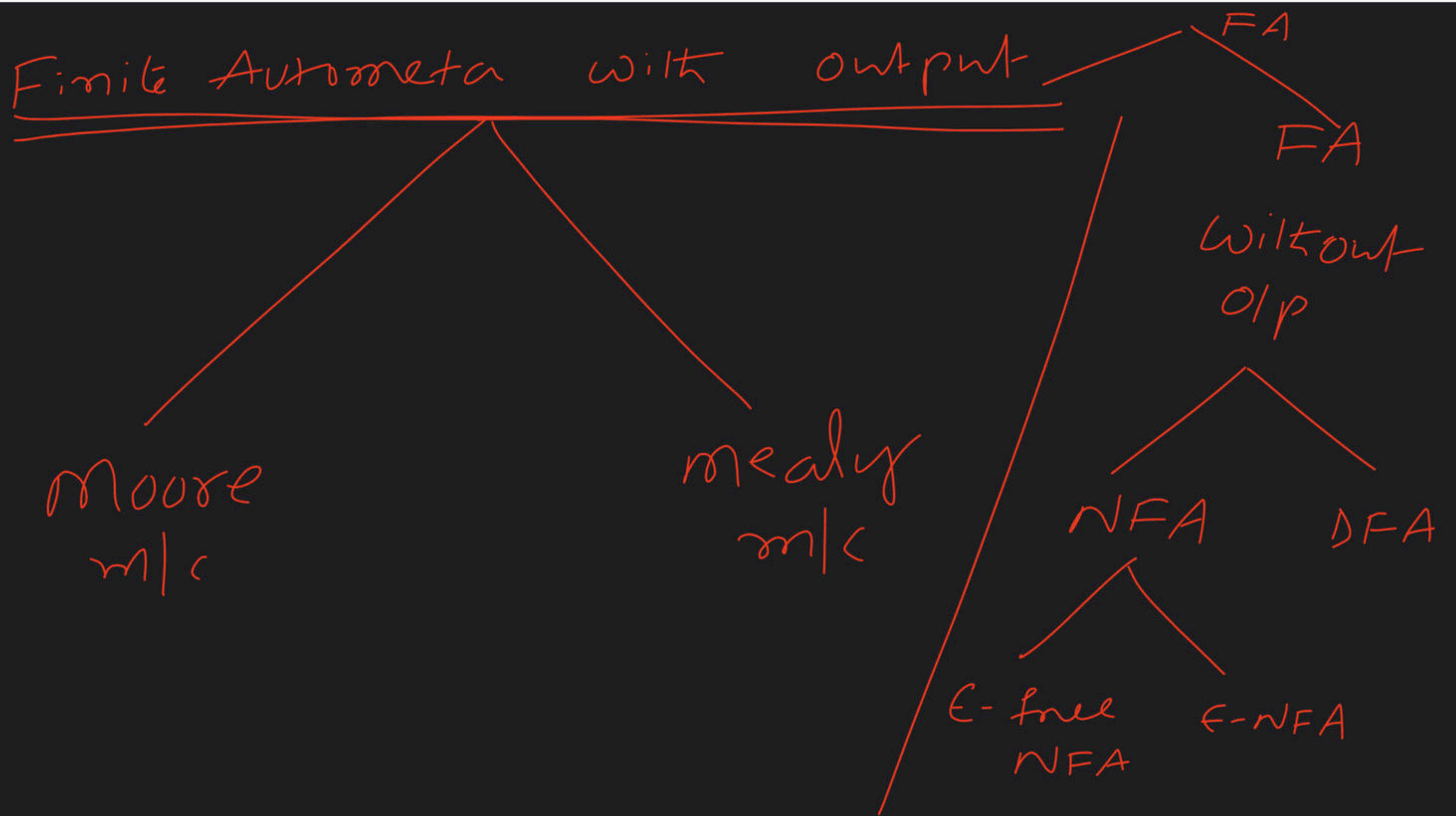
a^+ b^+



▲ 1 • Asked by Pikachu

Please help me with this doubt





Construct moore m/c that counts no. of
occurrence of sub^{string} ab in the given string
of a's & b's.

i/p: abbabbab

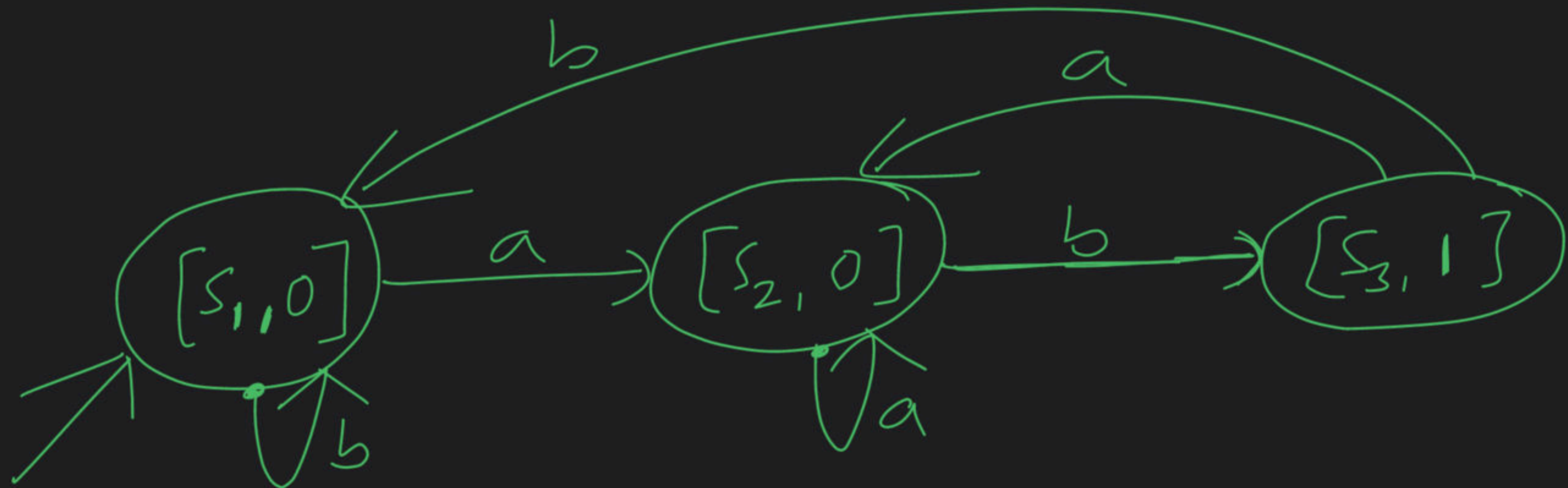
o/p: 3

i/p: bbbbbbbaaaa

o/p: 0

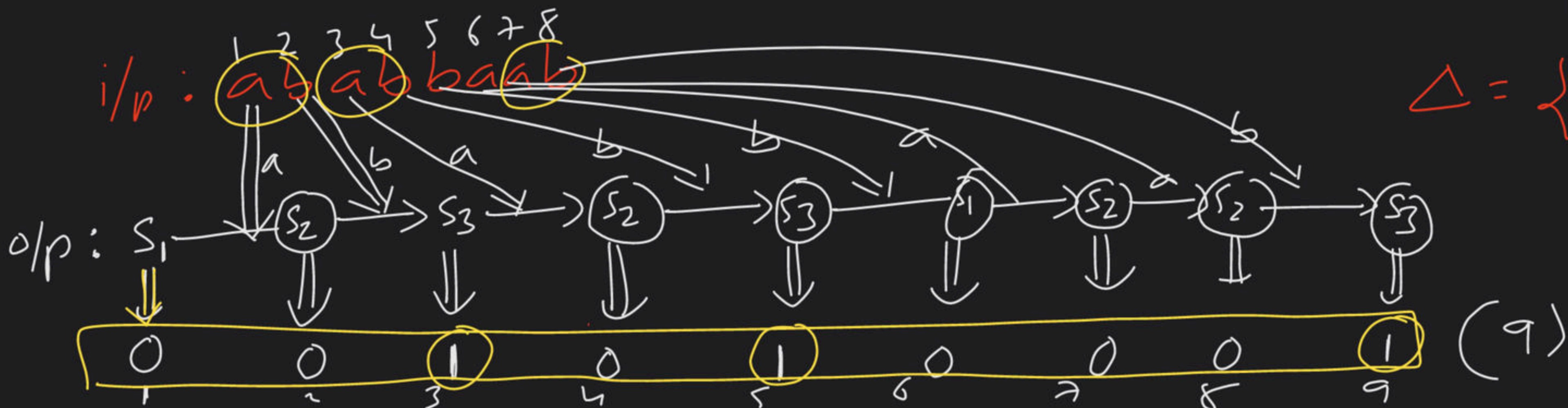
i/p: baabaabaa

o/p: 2

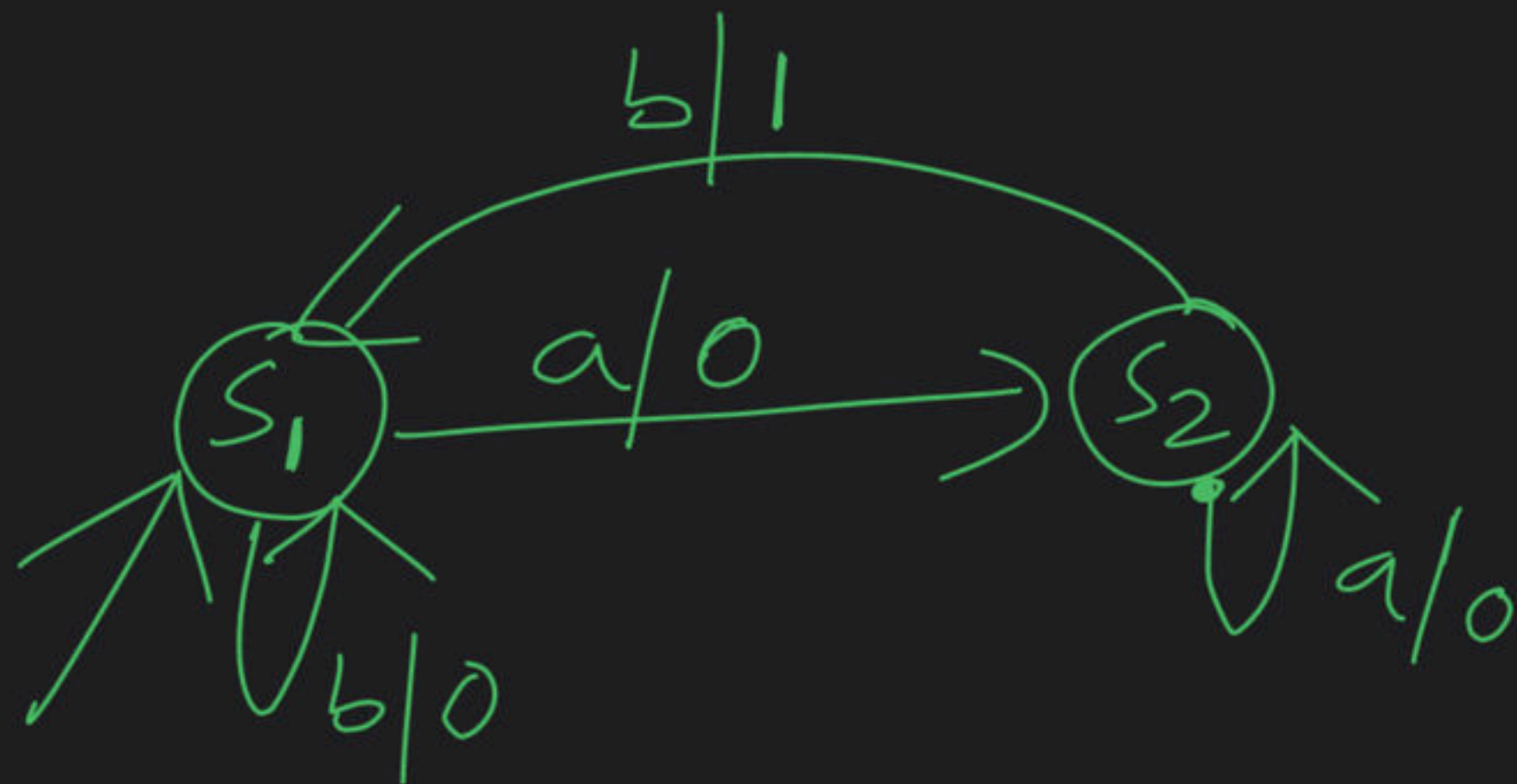


$$\Sigma = \{a, b\}$$

$$\Delta = \{0, 1\}$$

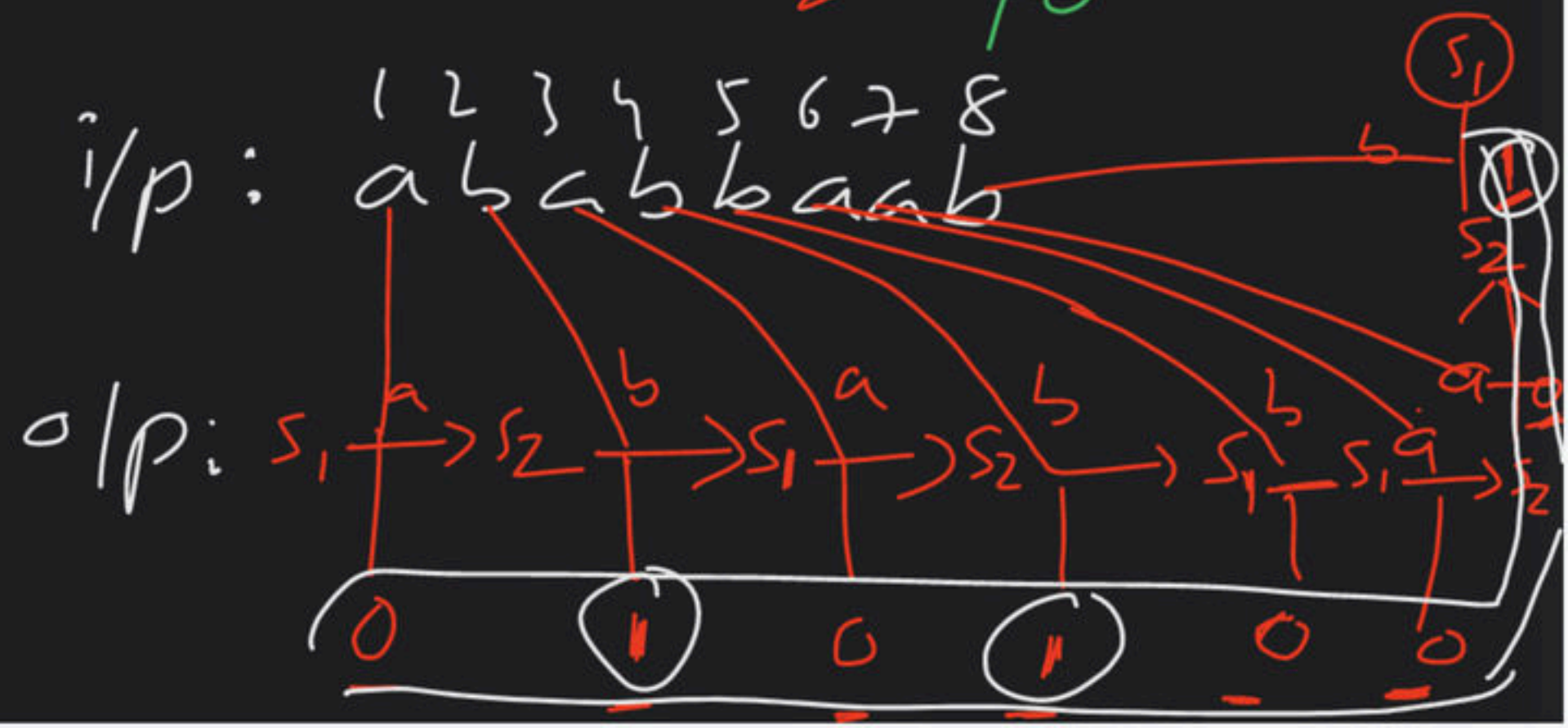
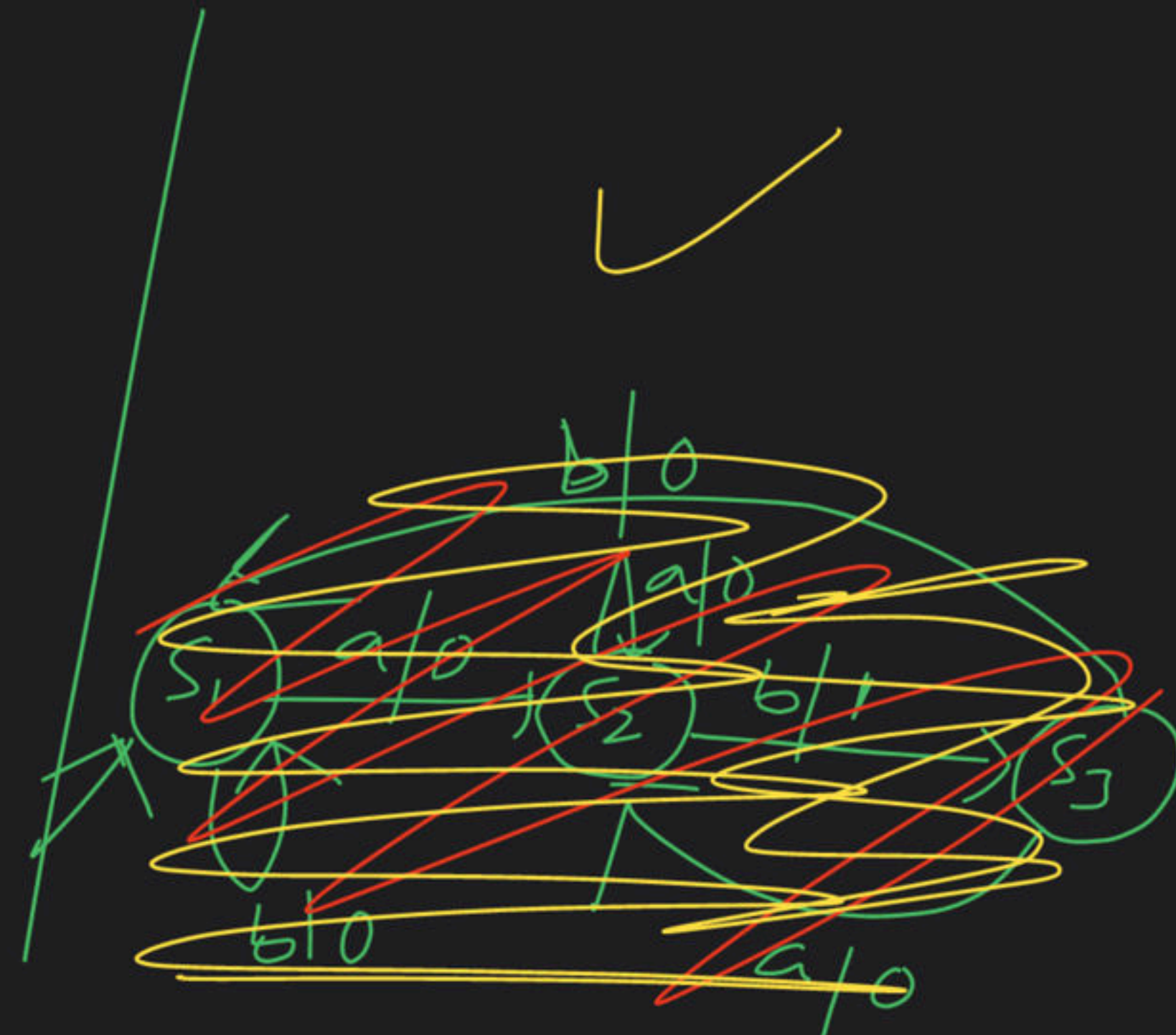


mealy



$\delta: s_1 \times a \Rightarrow 0$

$\delta: s_1 \times a \Rightarrow s_2$



① Moore is mealy and deterministic
(like DFA)

② No. of final states in Moore is mealy m/c
are 0, becz there are not language recogniser
but there are o/p generating.

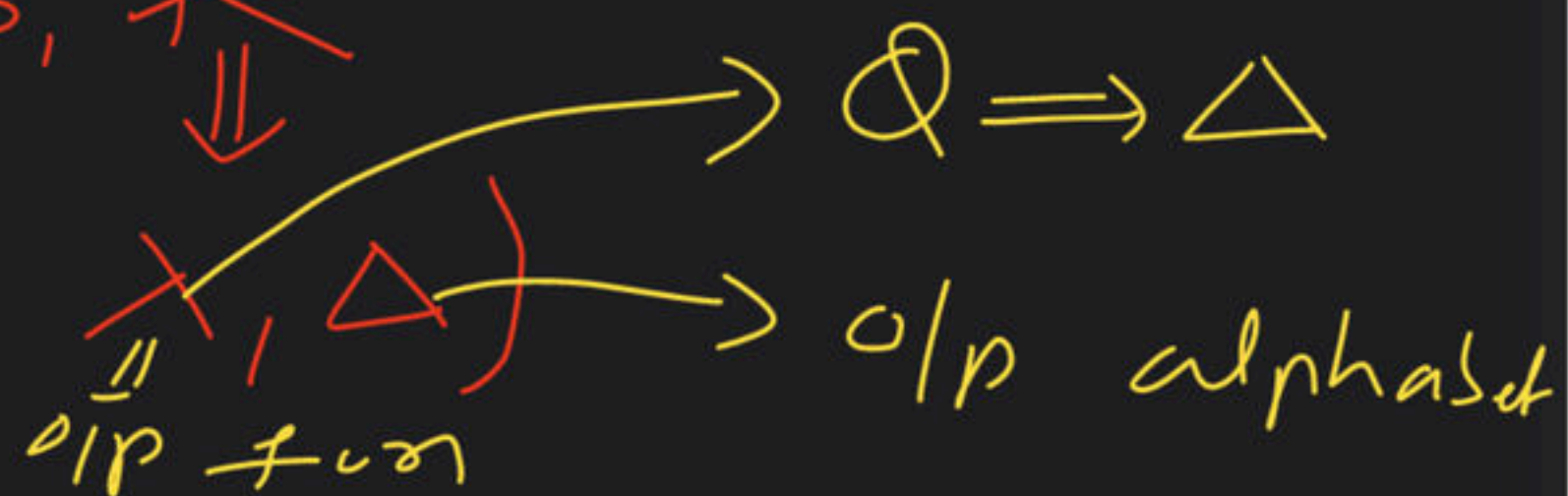
③ $\xrightarrow{\text{o/p function}} \Delta: Q \rightarrow \Delta \xrightarrow{\text{o/p alphabet}} \Delta$ (Moore m/c)

$\xrightarrow{\text{o/p function}} \Delta: Q \times \Sigma \rightarrow \Delta$ (Mealy m/c)

(4)

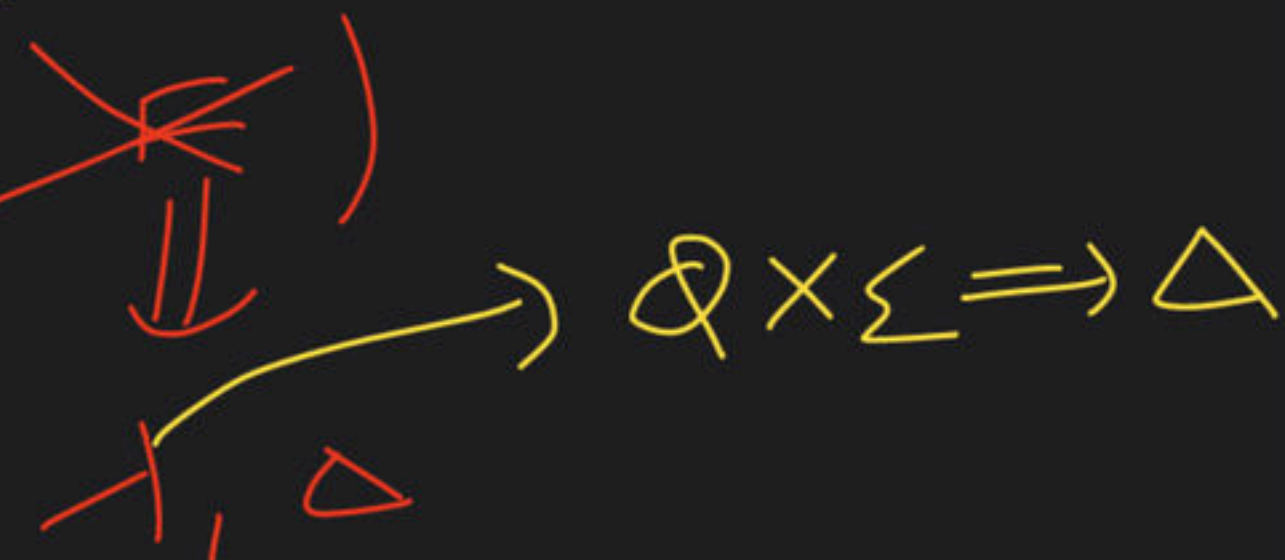
moore
m/c

$$m = (Q, \Sigma, \delta, S, \cancel{F})$$



mealy
m/c

$$m = (Q, \Sigma, \delta, S, \cancel{F})$$



(5)

In moore m/c for n-length i/p

string we will get (n+1) length o/p string

but in mealy we will get
n length o/p string only.

Thank all

Dedicate H5p

Followers

Huffman coding