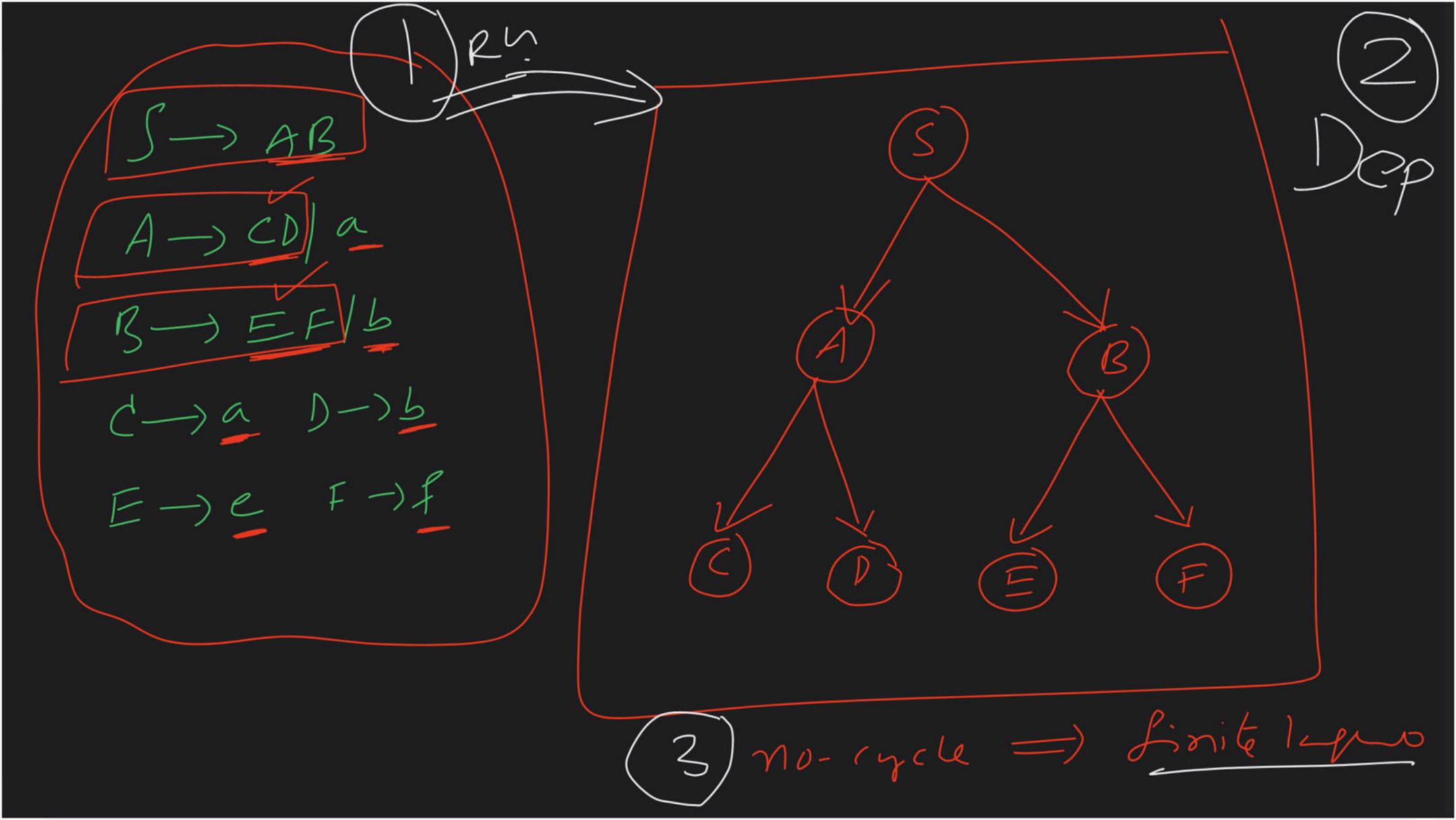


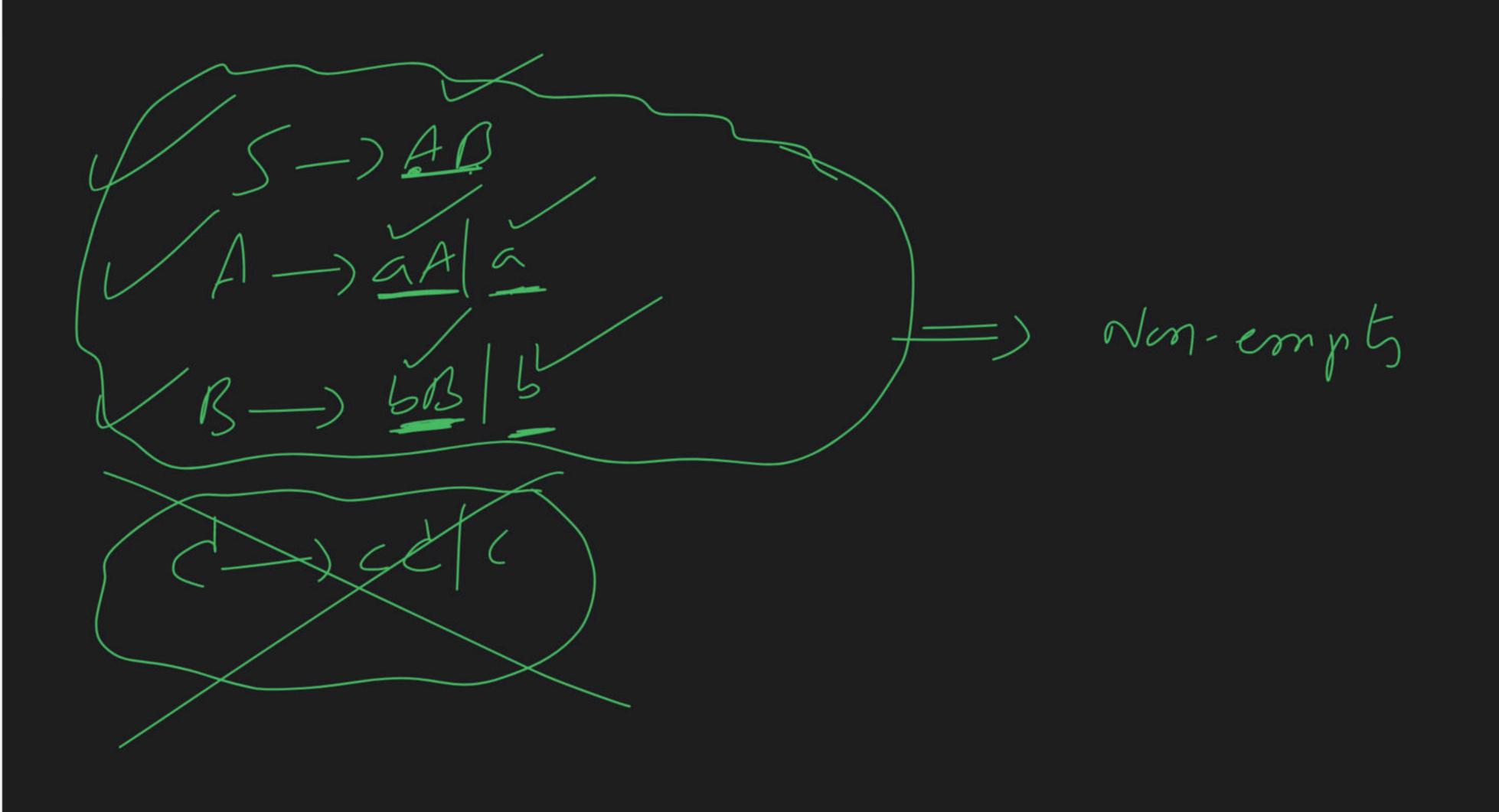
Complete Course on Theory of Computation



Decidale problem of CEL. Reduced Gram TO THE U. Emptinel == OE not reachelle 2. Fizitezell stroduction from 3. memberstip. (2) of any production CYK-Algo not genelly Alell I storf tem delet It st production CF4, X ==) 728 No O(m3) 1 DP



5-> AB / as A->BS/L B-) AS | d Look =) Linil Igo

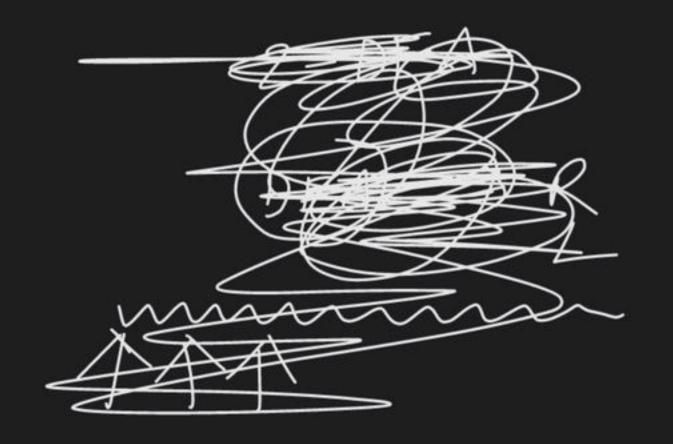


Ivring Machine FA+1-Stalk =>> PDA FA+2-Stack => +m

PDA + 1-Stock -> Tm

 $\leq \subseteq \cap$ BET

TM M= (Q, \le 1, \delta, \delta, S, F, \left\frac{\partial}{\partial}, \delta\right\frac{\partial}{\partial} \tag{Tape Alphabet} Blank => Initial
Tape sy-7-Turde machine Tau



$$S_1 \xrightarrow{a/y,R} S_2 \quad (ar) \quad \delta(S_1,a) = (S_2,y,R)$$

$$s(s_1)$$
 $a|s_1L$ $s(s_1,a) = (s_1,B,L)$

$$\delta: \mathbb{Q} \times \mathcal{I} \longrightarrow \mathbb{Q} \times \mathcal{T} \times \{L, R, S\}$$

$$\delta: \mathbb{Q} \times \mathcal{T} \longrightarrow \mathbb{P}(\mathbb{Q} \times \mathcal{T} \times \{L, R, S\})$$

NTM

Ton L={ an/ n=1/ Constanct BBBBAAAA a a, R accepted becz €·B=)B findly we no in hall him I state Thanks All