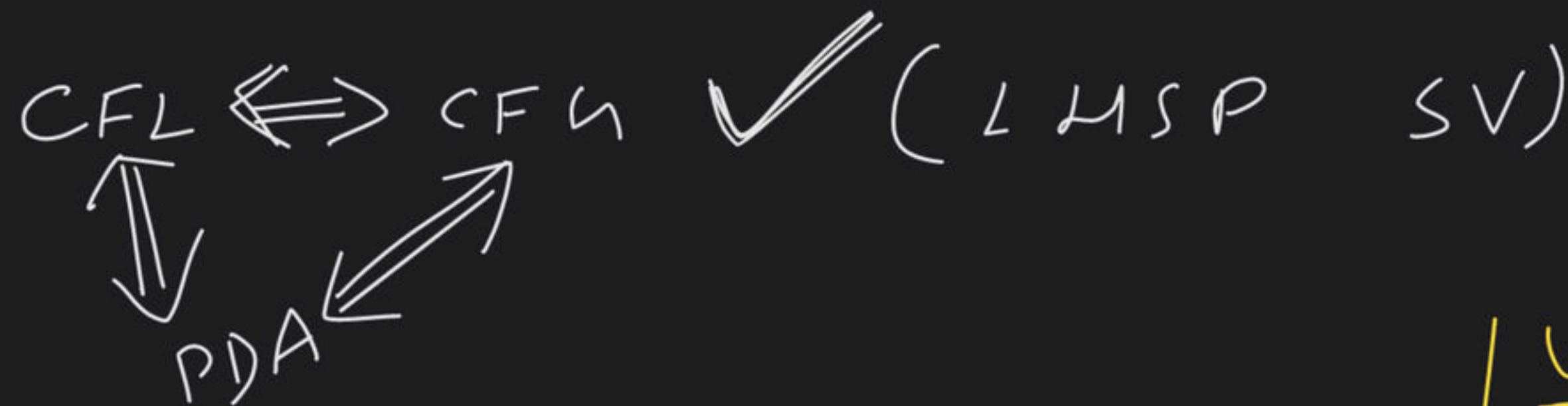




Turing Machine - III

Complete Course on Theory of Computation



msd

PDA construction

$PDA = FA + 1\text{-stack}$



$PDA \quad M = (\underbrace{Q, \Sigma, \delta, S, F}_{K}, z_0)$
 $z_0 \in K$

\downarrow Stack Alphabet
 \downarrow Initial Top of stack

$L_1 = \{a^{100}\} \Rightarrow RL \checkmark$
 \downarrow
 $CELL \checkmark$
 $CILL \checkmark$
 $RLL \checkmark$

$L_2 = \{a^m b^n \mid m, n \geq 0\}$

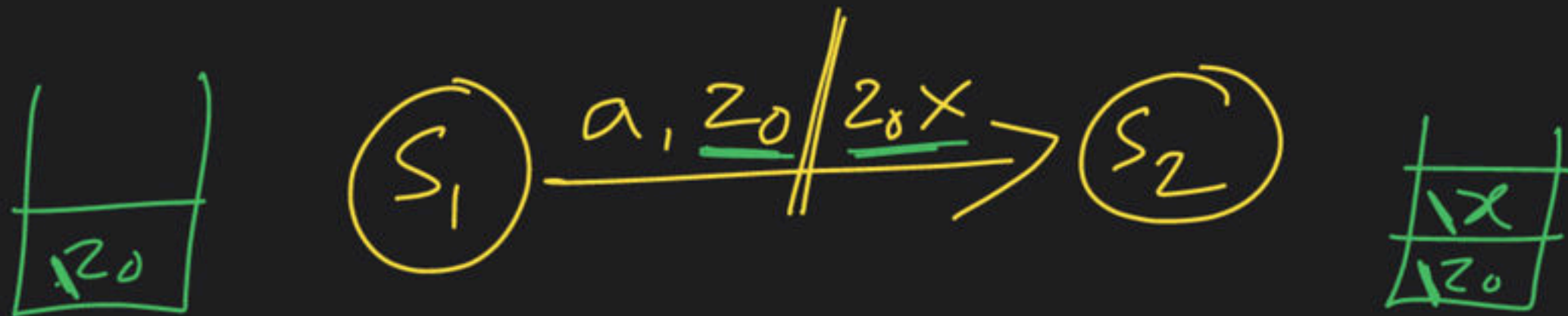
$\$, \#, z, z_0$

Suppose on S_1 state a as i/p and top of
 its stack is z_0 then goto S_2 and
 push x in stack.

(or)

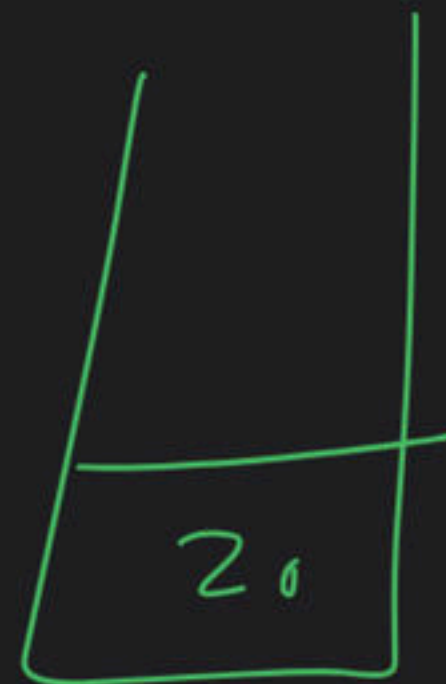
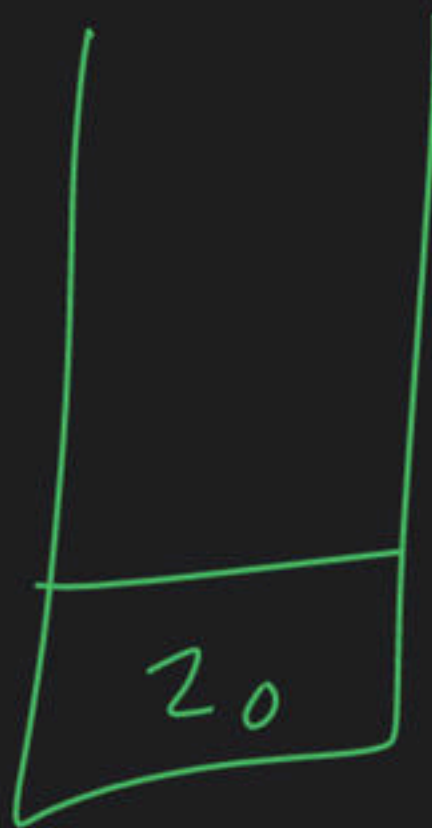
$$\delta(S_1, a, \underline{z_0}) = (S_2, \underline{z_0 x})$$

(or)

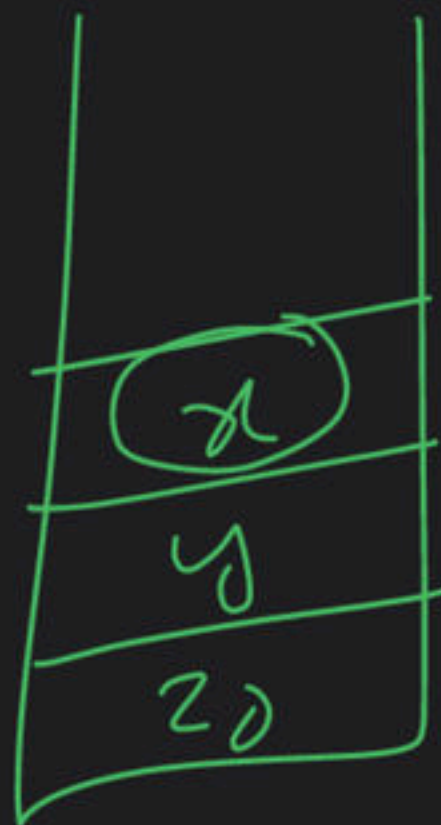




Skip



$a^m b^n$



pop

ex

10-15

RRR

