CFG (-) PDA CF G V: voniables, SEV 5: termals R: production pules & V -> (VUE). PDA Q: states 90 EQ, F EQ. I: input alphabet stack alphabet S: transition relation QXI QXIXI -> 2  $S(a,a,b) = \{(a,b_1), (a_1,b_2) \dots \}$ input top of stock.  $(0^n 1^n)^*$ CFG for

S = 
$$55 \mid E$$
  
S =  $55 \mid E$   
Q. To three always a PDA for a CFG  
and vice versa?  
Given CFG, how to constant a PDA?  
E.G. S =  $55 \mid E$   
S =  $55 \mid E$   
S =  $55 \mid E$   
(SS)

what to keep in stack? enoughing in current string to the right of and including) first variable.

(\$\$) ((\$)\$) (()\$) (()(\$)) (()(\$))) (()(()))

- It top of stock is terminal, mutch with input.
- If \_\_\_\_ vaniable, apply rule

9/shut)

√ €, €→\$

√ €, €→\$

A→ aBc

E, A -> aBc = abbles sules

> roatch terminals with input. "balanced parenthesis",

