



The bollowing diagram School a Anarchion in a PDA brom a State on to over labeled or a, b -c: Inbut symbol Stock Pugh Symbol (2) (3,6) (3,6) (3,6) (3,6)This means at state quif we encounter on Inputa' and Job Symbol of the Stack u b, then we pop'b', push c' on Jop Of the Stack and move to State 9/2.
Transition Function! S(20, a, 20) -> 21, a20) \* lucustile Notation! \* It is denoted by (+) \* 14 is represent one or more many moves
of PDA. It is called process of. . noit inset

EX!: Let PDA (0, 8, 8, 8, 0, F) 8: (a, a, a, a, b), £= 2a, b4, S= 8a, 203 S(avo, a, 20) = {(ao, a20)} & ( avo, a, a) = 2 ( avo, a a) } S ( avo, b, a) = { (a, n} S ( aro, b, a) = {(ar, n)} 8 ( 24, 1, 20) = { (20, 1) } Input String aabb Sola ( ( avo, aabb, 20) + (avo, abb, a20) + (90, bb, aazo) + (a1, b, a20) + (av, 1, 20) + (avo, A, A) String is accepting became Puns down Stone (PDS) is empty. \* PDA is accepting by empty stack

(POA) S(Q0,9,20)=(Q0,920) S(Q0,9,9) = (Q0,99) & ( Qo, b, a) = (Q1, 1) s (a1, b, a) = (a1, 1) 8 (a1, 1, 20) = (a16,20) Inbut Staring agabbb Soli (aro, gaa bbb, 20) |- (aro, gabbb, a20) + (avo, abbb, aazo) + ( avo, bbb, aaazo) + (9, bb, aazo) + ( a, b, a 20) L (avi, 1, Zo) + (ave, 1, 20) Stuing accepting \* PDA is accepting by final state

