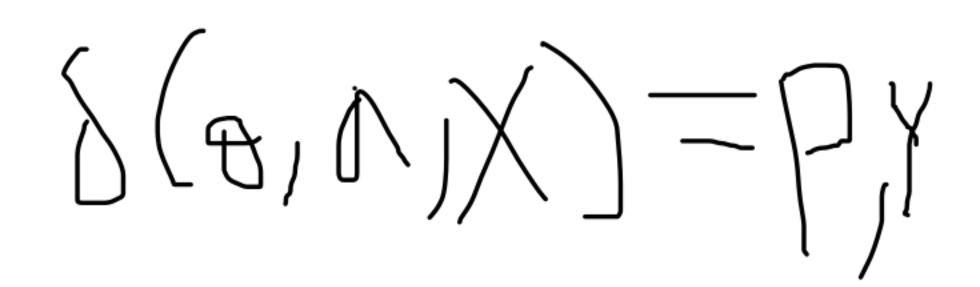
$$z0=z$$

state transistion:



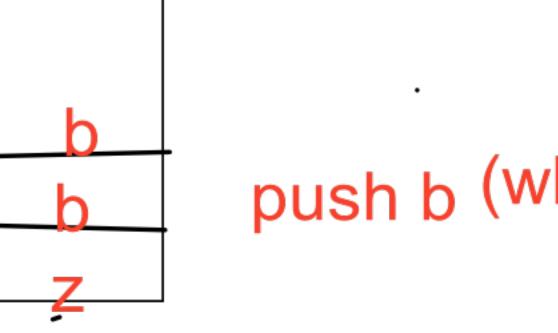
consider a language L={ E, ab,ba,abab,baba,abba..}

z

push a pop a

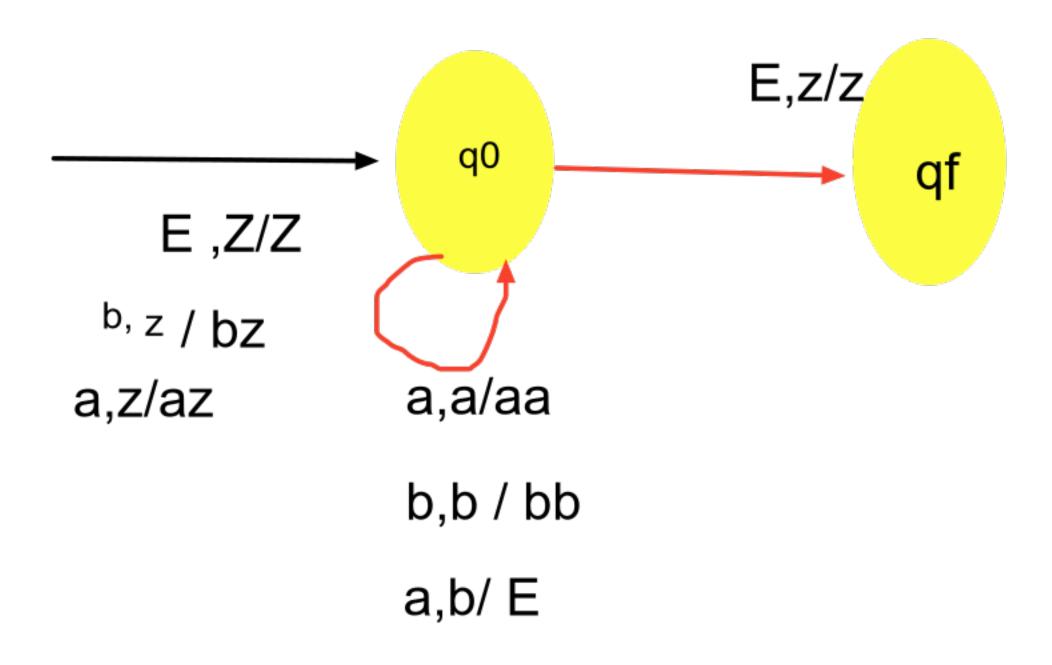
construct a PDA

no of a = no of b

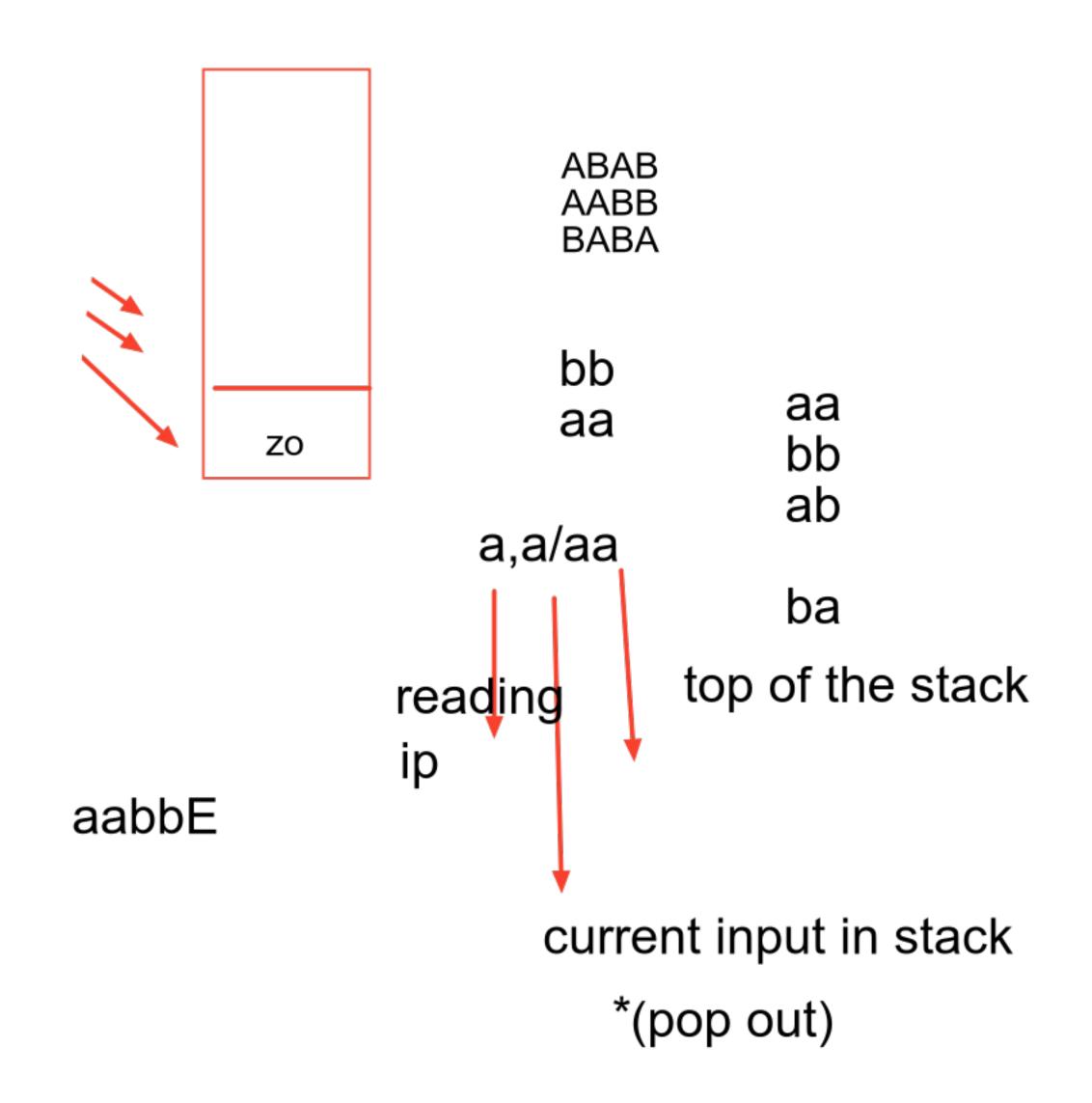


push b (when next a ,pop b)

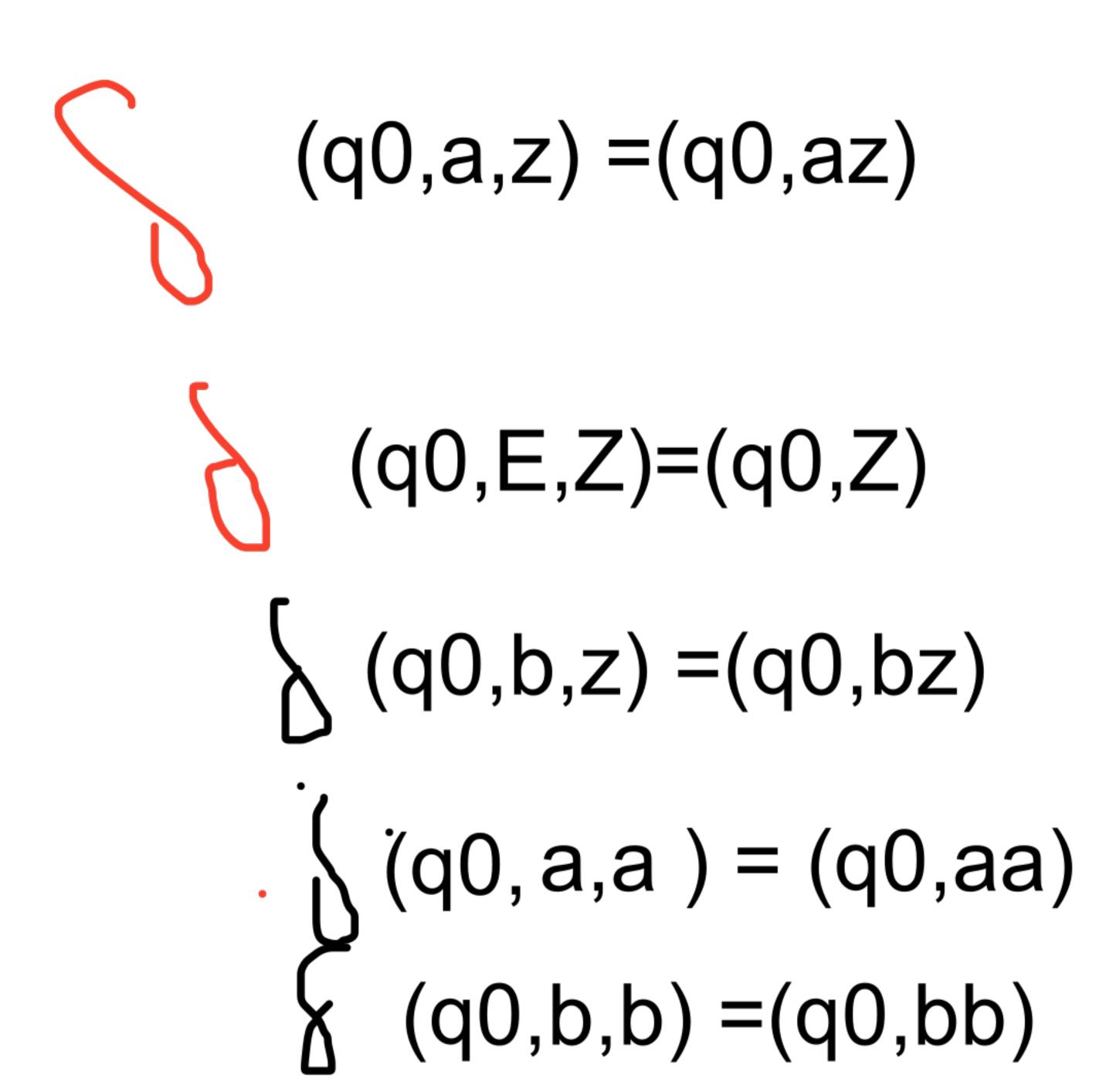
## Constructe the PDA no of a should be equal to no of B



when value is E i reach final state when value is Z i reach final state



## transtion function



$$\begin{cases} qo,a,b) = qo,E \\ (q0,b,a) = qo,E \end{cases}$$

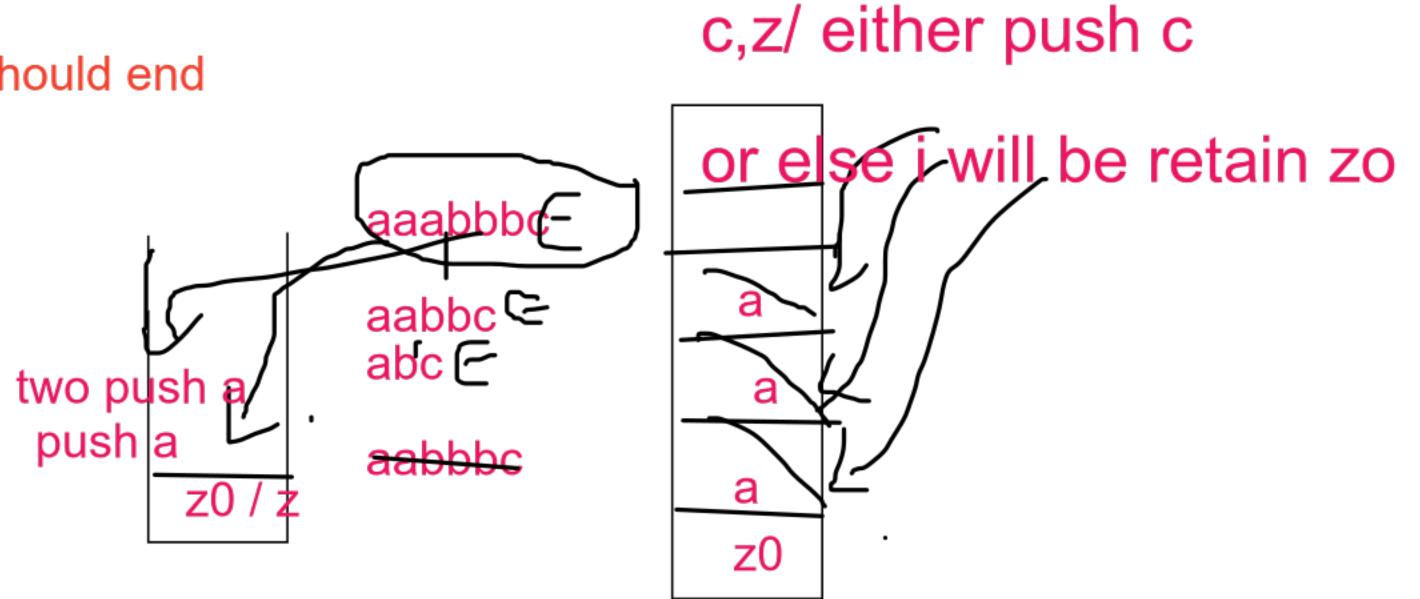
$$\begin{cases} (q0,b,a) = qo,E \\ (q1,E,Z) = q1,z \end{cases}$$

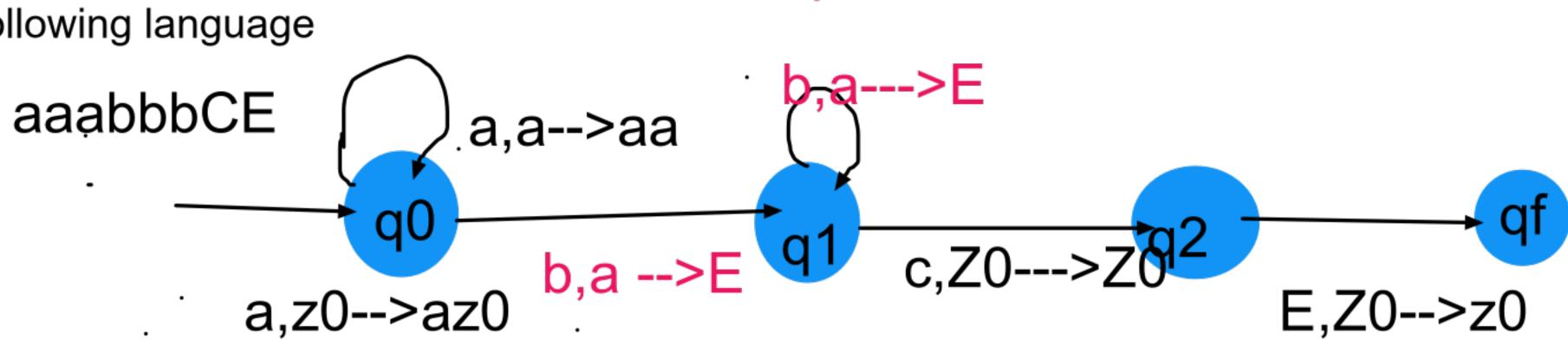
sai ranjan sauvik natasha vangipuram arijit devahuti

construct PDA that accepts the following language

$$\Omega_{\Lambda}$$
  
L = a b c where n  $\geq$  1

- 1. no of a = no of b
- 2. a's should be followed b
- 3. C should end





$$n \eta \gamma$$
  
a b c m,n=1

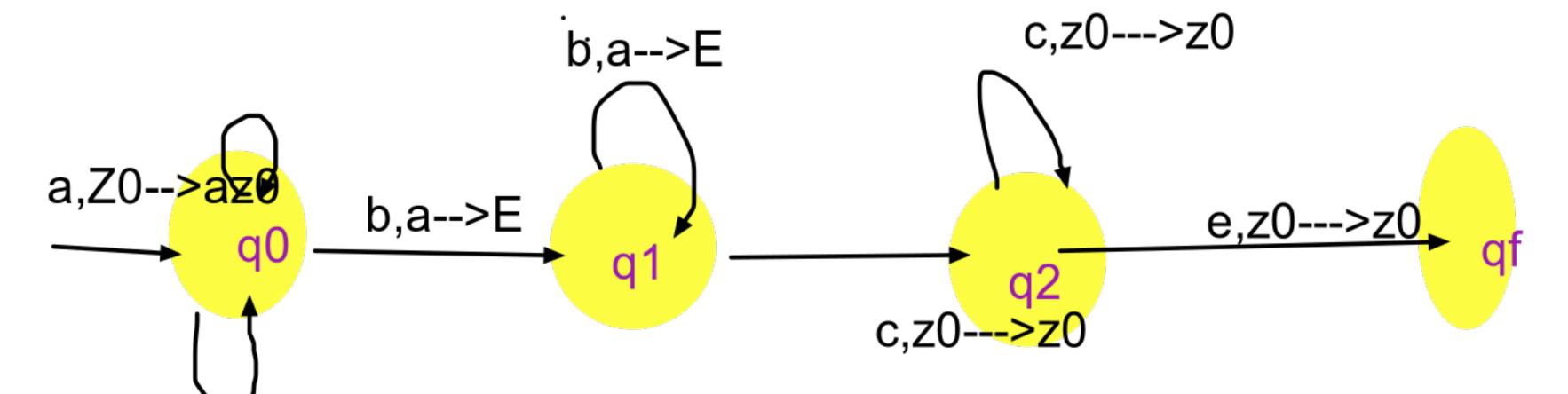
## transition state + diagram

I = { abc,aabbc,aaabbbcc, aaaabbbbc,,,,....}

a is followed by b

b is followed by C

no of a = no of b



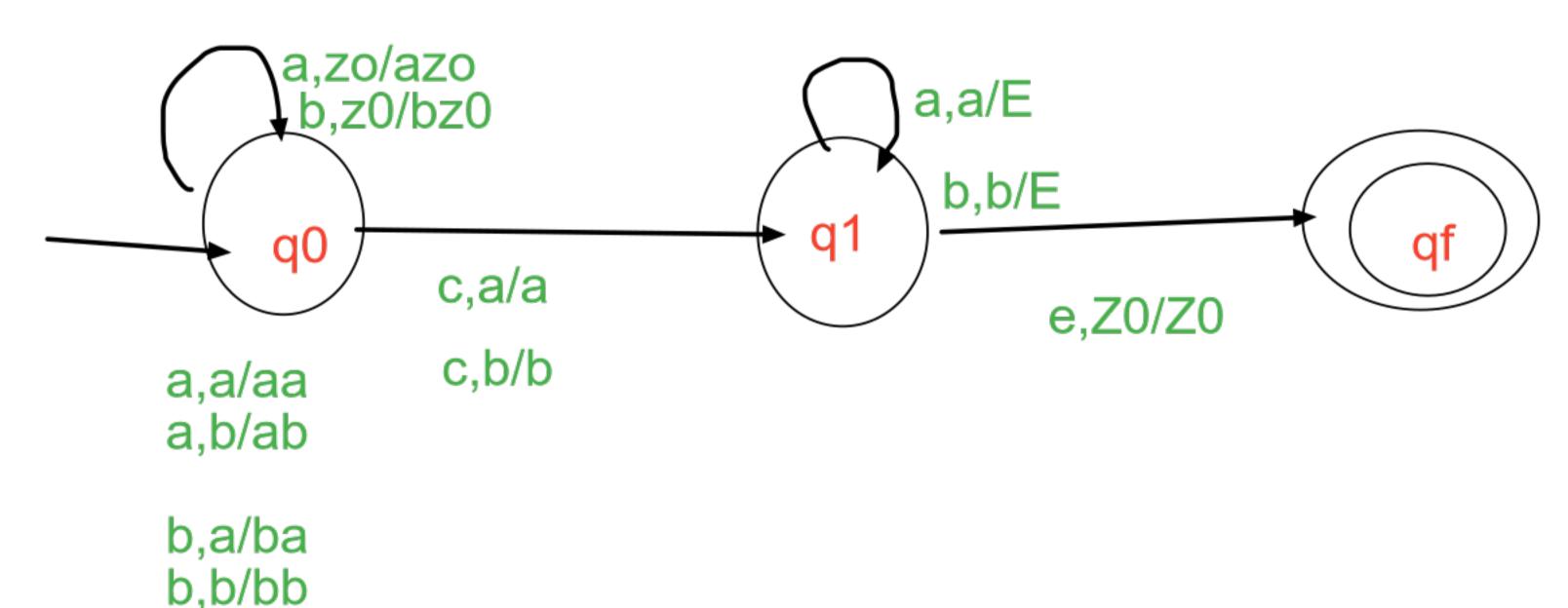
a,a/aa

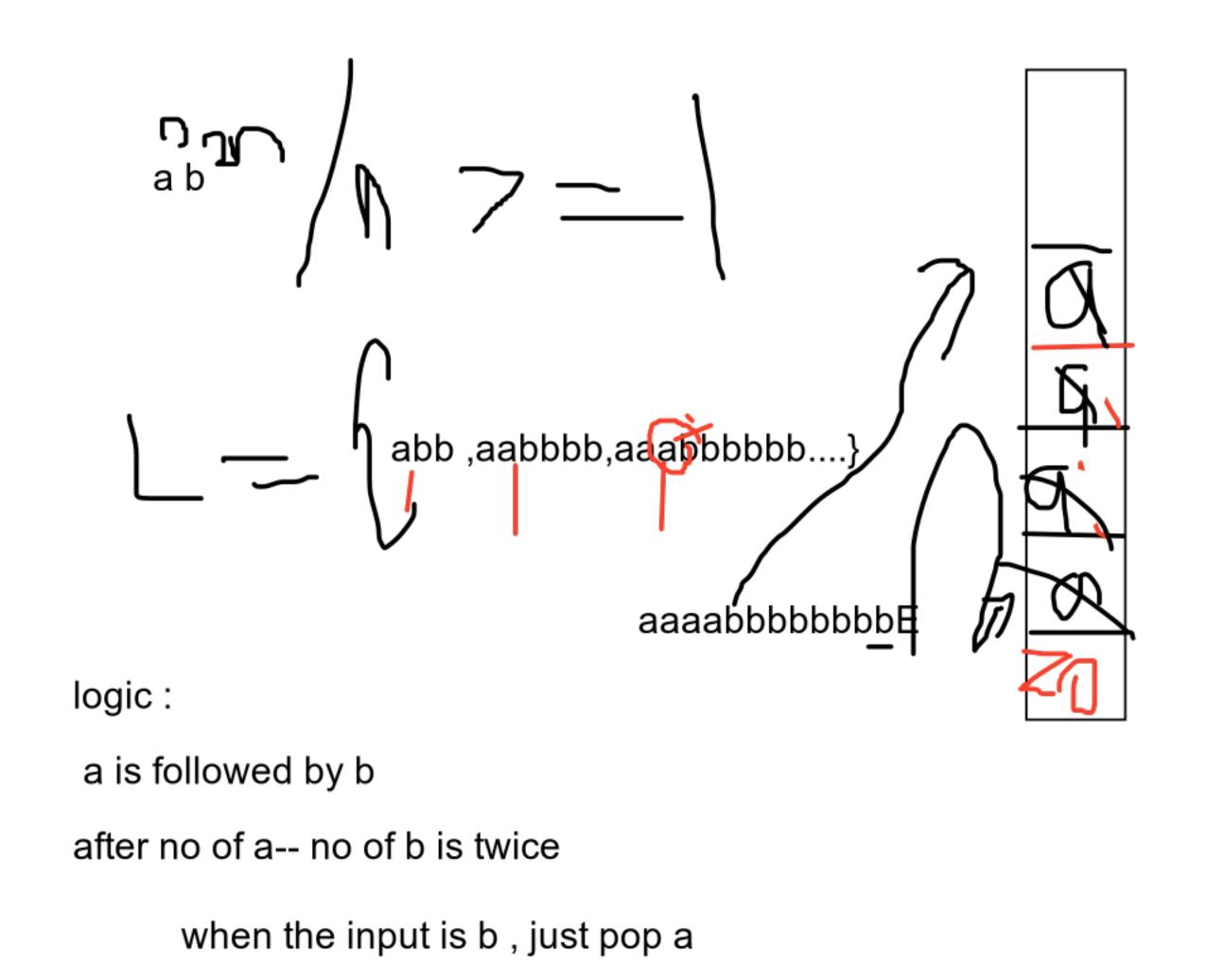
construct a PDA for the language { WCW }

$$=$$
 (a,b,c) where w =(a+b)\*

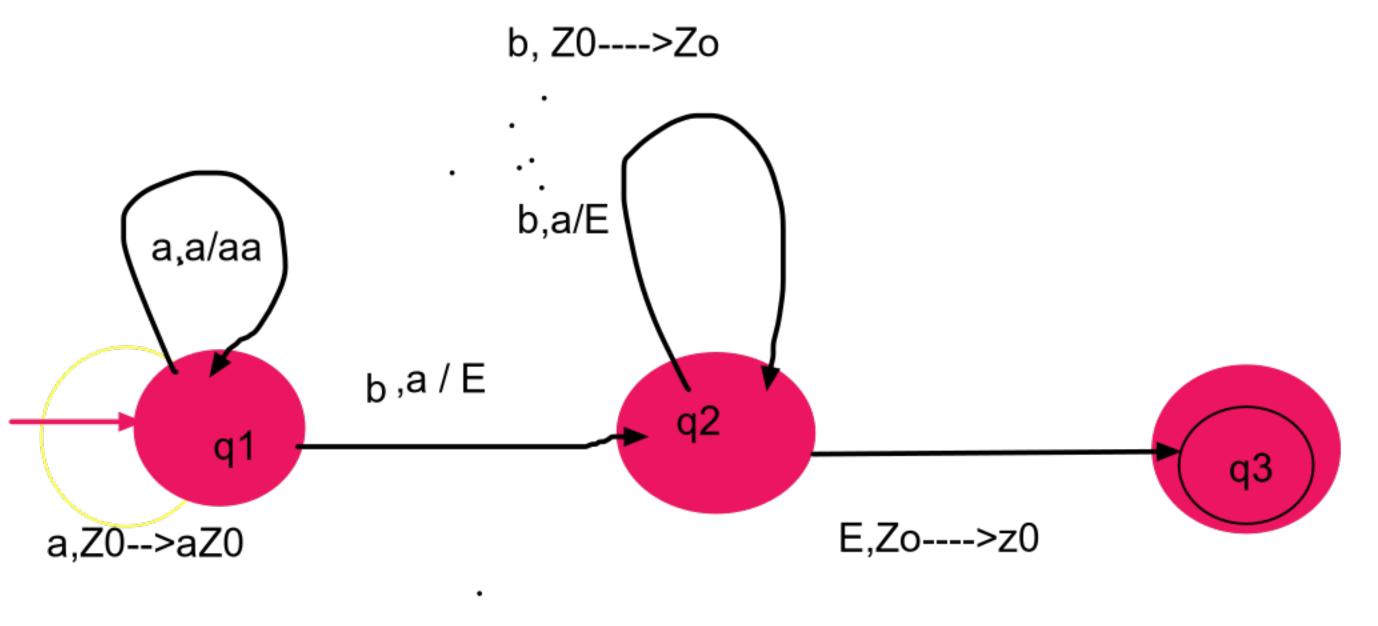
L={aca,bcb,abcba,bacab,abbcbba,abbacabba,abacaba...}

C is the mid of the string until C, its should pushed





when the input is b, no a also (if a is there pop a)



state diagram
state transition table

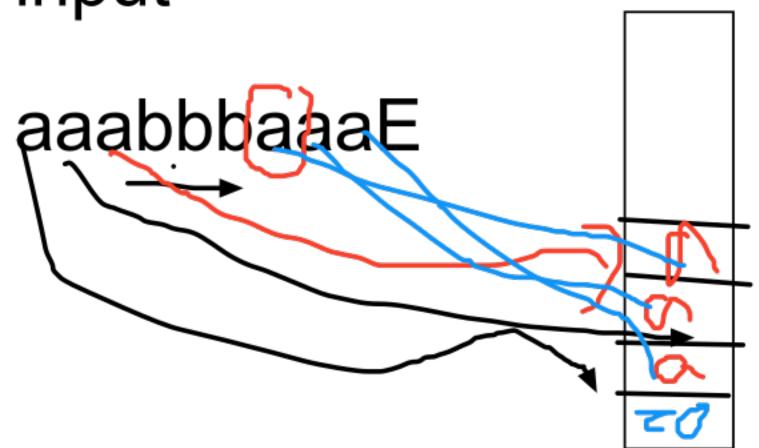
a/s should be followed by b

2.no of a is equal at the end

3.only three b should be there

∩ a bbb a; n ≥ 1

L ={ abbba, aabbbaa,aaabbbaaa,,....} input



first a power n -- push three b do nothing

a power n pop a

e is epsion

