Name: Md Raitaral Islam Bhuigar

Id : 20101239

Course: esf 331

Section: 08

Assignment:

2

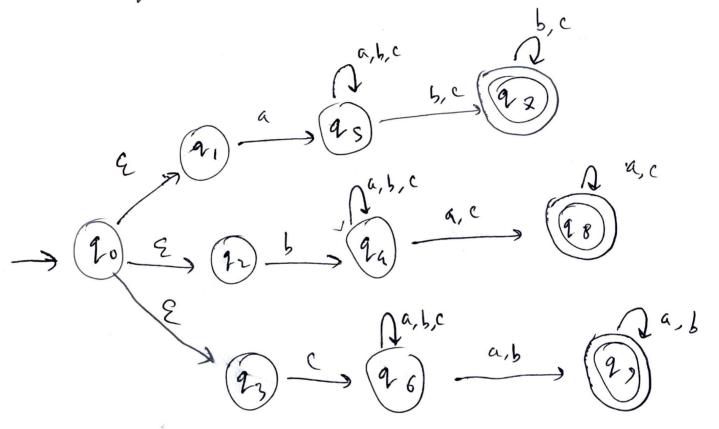
Am to the O: N:1

(W)

L= fw; E &*; w does not start with a digit on contains only digits?

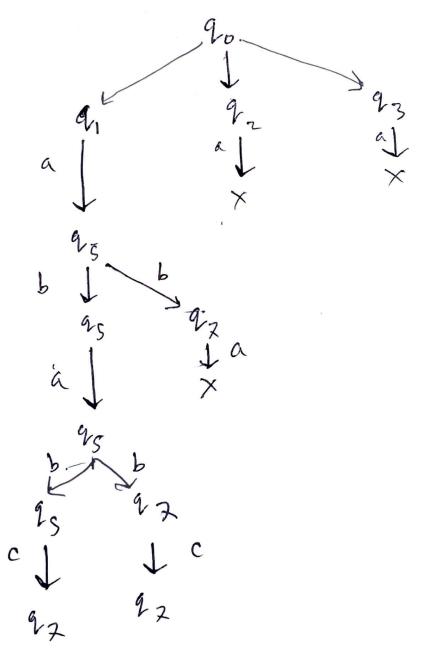
> 2 - NUC N - d 0,1,2,--- 93 C - d a, b, c,--- x, y,23

L = dw E 2* : a Glast's and ends with different symbols by where 2 = darh, cb



Suppose,

A = ababc



final

A is accepted, as 197 is an find state

Ano to the O'N' 2

Move DFA (Qo, 1)

$$\frac{DfA!}{Q_0} \xrightarrow{Q_1}$$

$$1 \rightarrow (0_{2})$$

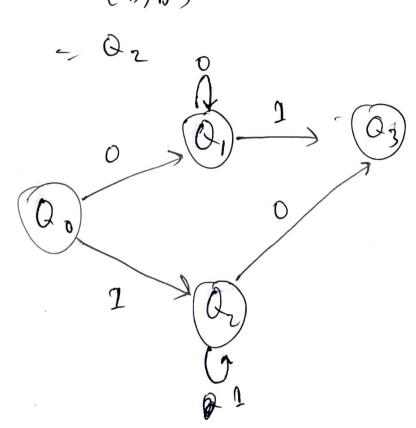
Move OFA (Q, 0)

Move of
$$Q_{1,1}$$
)

= $Q - Closume (Moventh (Q_{1}, 1))$

= $Q - Closume (AB, D, FB)$

= $Q - Closume$



Move DFA (Q3,0) = E-Closure (Morenfa (03,0)) - 2-closure (dB, F, D3) - 6 B, D, F3 Move DFA (D3, 1) - 2-Closure (More AFA (D3,1)) - 2-Closure (dB,D, F33) -- dB, D, F}

Anos to the O'N'3

Partion: (1: 12 4) (40 92)
6, 62

& transition!

9,) Ca,
92 / Gaz

1 transition;

and the

i a Inhneaks apant.

New partition?

(0, 94) (90 93) (9<u>4)</u>
6, 62 63

For bi,

o transition;

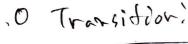
 $q_1 \longrightarrow Gg$

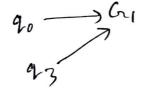
Transition;

an shr

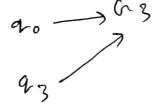
.: Nothing breaks apart.

for ha,





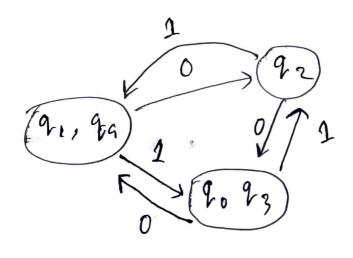
1 Transition:



-: Nothing breaks apart as it is -single.

For 92, rothing will break apart as it is -single.

Find Partion = (a, 44) (20,93) (23)



Minimized DFA