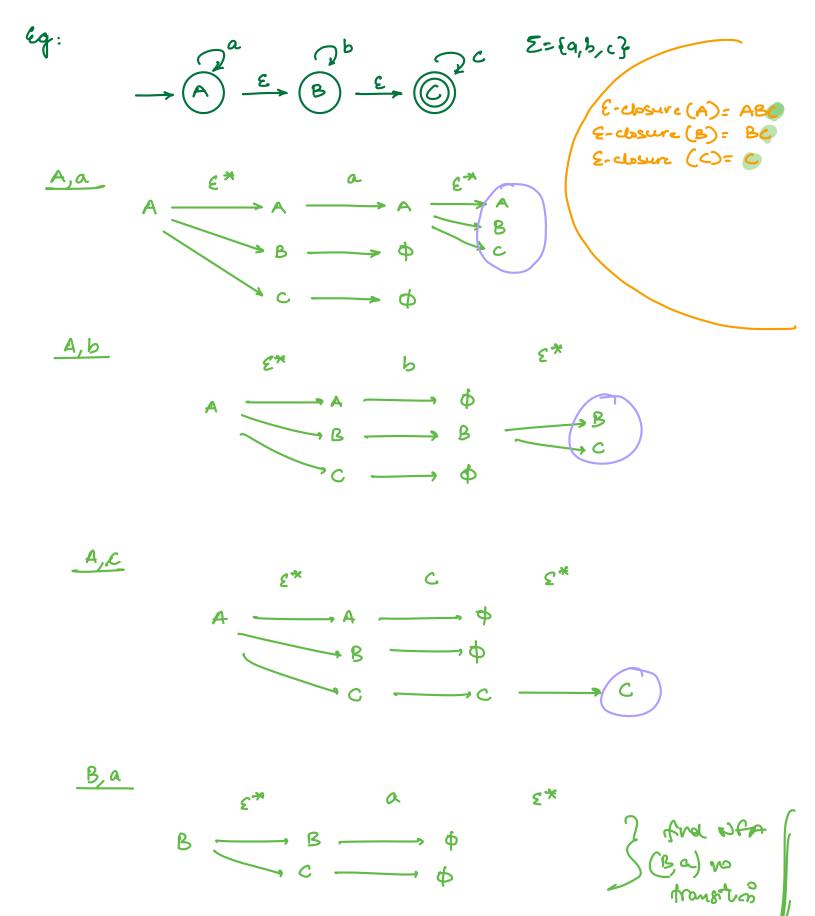
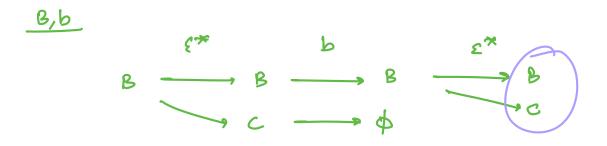
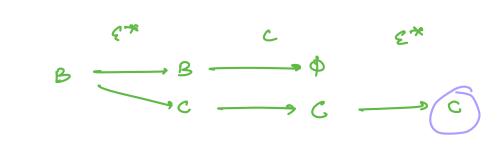
Conversion E-NFA to NFA







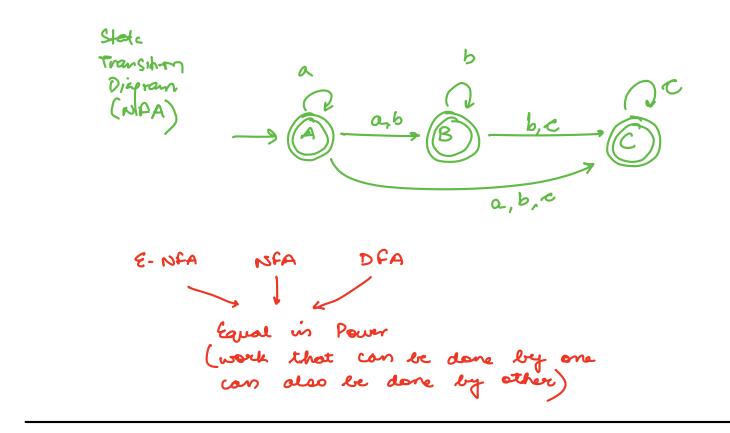


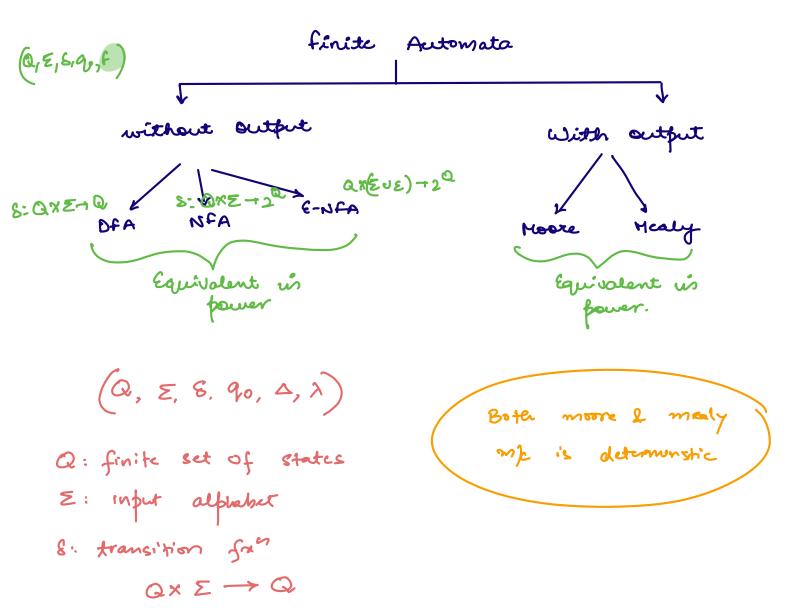
B,C

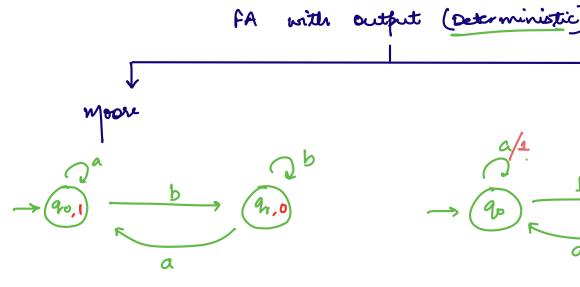




State Transition		1 a	Ь	r	
Table (istA)	A	ABC	BC	C	
	B	φ	BC	C	
	C		¢	С	







b/o_

0/1

, no amb

maly

a/1.

P

b/o

J

91

$$\bigcirc$$
 Eq: q_0 , output is 1
 q_1 , output is 0

$$O \ eq: \ Input: ob$$

$$q_{0} \xrightarrow{a} q_{0} \xrightarrow{b} q_{1}$$

$$1 \qquad 1 \qquad 0$$

$$Output: 110$$

©
$$eq: q_{0,a} \rightarrow 1$$

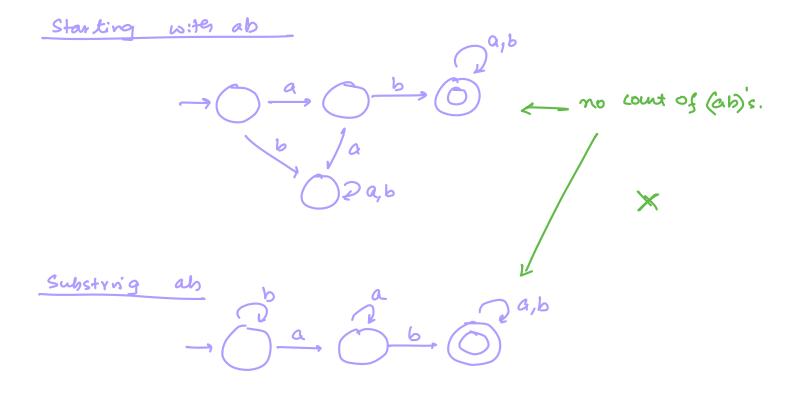
 $q_{0,b} \rightarrow 0$
 $q_{1,a} \rightarrow 1$
 $q_{1,b} \rightarrow 0$
© $eq: Input: ab$
 $q_{0} \xrightarrow{a} q_{0} \xrightarrow{b} q_{1}$
 $1 \qquad 0$
Output: 10

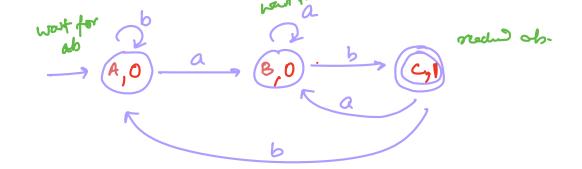
O Input : lengtes nO Input : lengtes nOutput : lengtes n+1Output : lengtes n

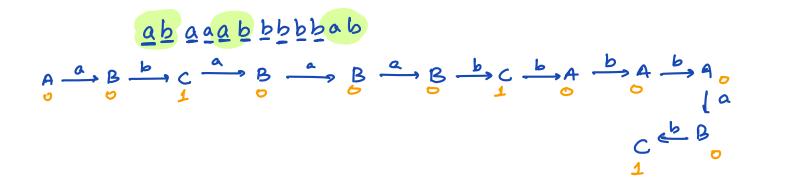
Q: Construct a moore m/c that takes set of all strongs over fa, b) as input and prints 1' as o/p for every occurrence of 'ab' es a substrong.

3 options:

- starting with ab
- substring ab
- ending with ab

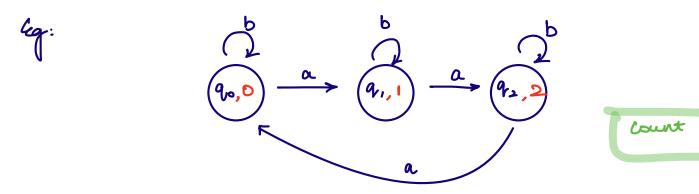








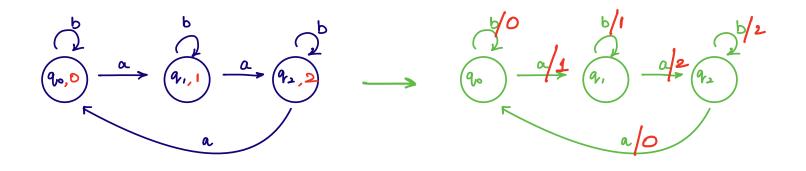
Convert Moore to mealy machine:



output is associated with every state, noue output to every transition.

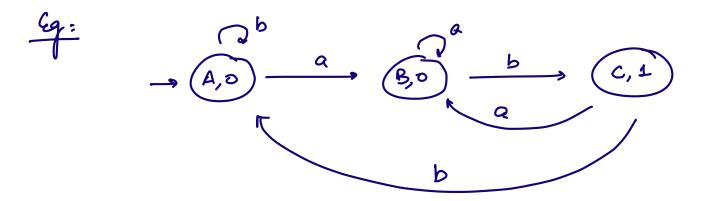
(go,a) -> q1 and on q, output is $\rightarrow q_{0} \xrightarrow{a} q_{1,1}$

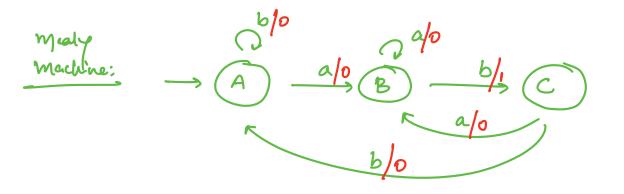
- go al gr



State Transition Table

moore m/c





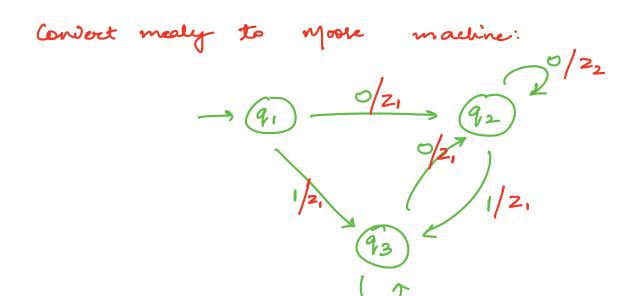
State Transition Table:

	a	Ь	
Ą	B	A C A	0
B	В	С	0
С	B	A	1



mcaly:	
·	

١	a	Ь
A	B/0	A/o
B	810	CII
C	B/o	A /0

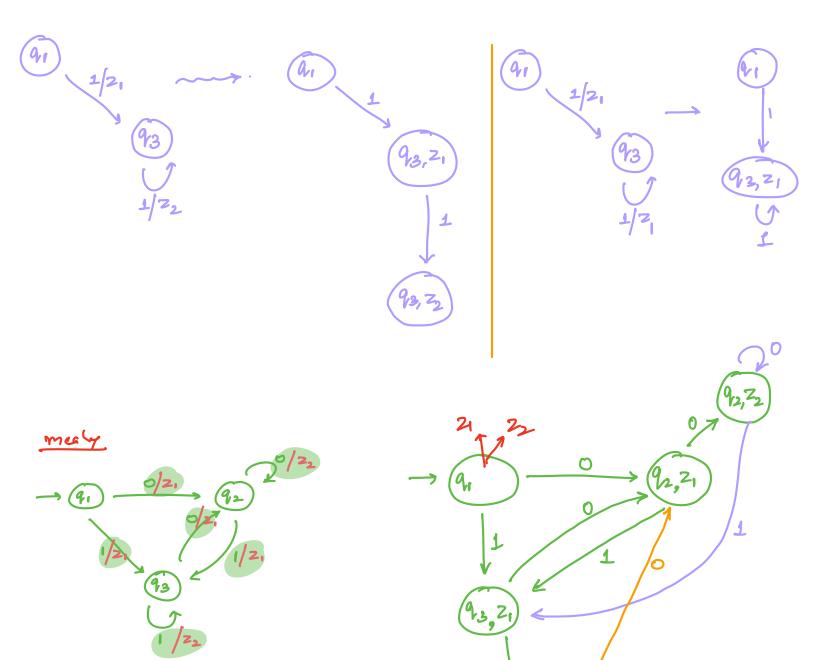




o is going to 9, & 0/p is 2, q, on $\rightarrow (\hat{q}_1) \xrightarrow{o/2_r} (\hat{q}_2)$

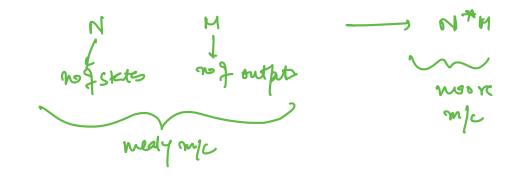




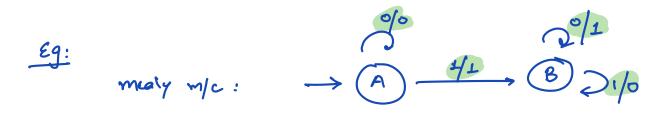


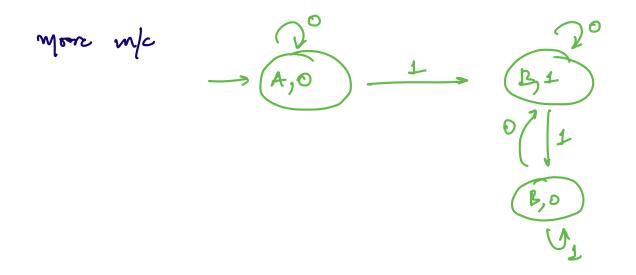






gi didnot git ange ontpat bez there is no incoming edge to gi. Keep either 21 r Z2 with Gr.





language which is accepted by finte automate is called as LEGULAR LANGUAGE.

