NOTRE DAME UNIVERSITY BANGLADESH



Theory of Computation

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Submitted by: Shazidul Alam

Subject: Theory of Computation

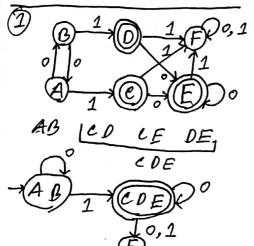
Student ID: 0692220005101009

Batch: CSE-19

(22-08-2023)

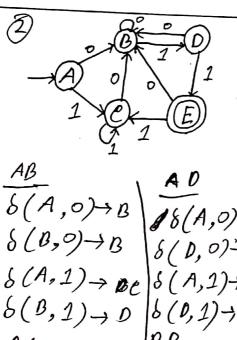
CSE-19 Id: 0692220005101009

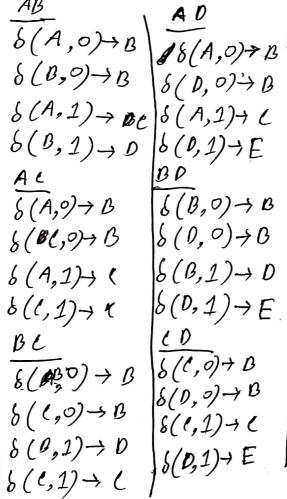
Minimization of DFA (Table Filling Method) + Myhil Narvode Theorem

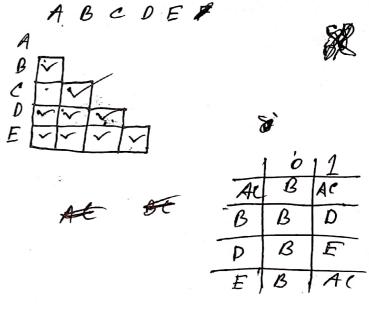


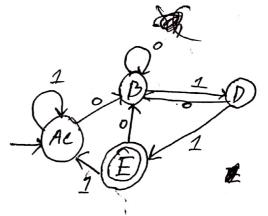
A						
$\mathcal{C}^{}$	AB]				
C	V	~	_			*
p	~	/	co	L		
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Fl	~	~	~	~	~	
					1	

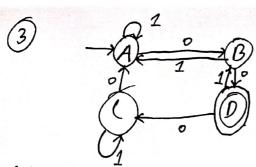
E









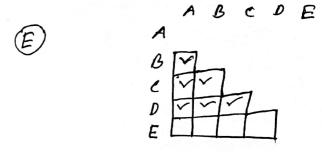


	$\mathcal{O}_{\mathcal{I}}$
AB	1
AS(A,0) → B
8 (B, c	
$\delta(A, 1)$) → B A
8(0,1))→ A
AC	
8 (A,0)	$\rightarrow B$

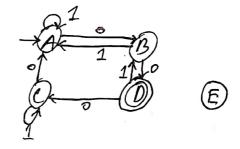
8 (c,0) → A
$\delta(A,1) \rightarrow A$
6(€,1)→C
BC
$\delta(B,0) \rightarrow D$
$\delta(c,o) \rightarrow A$
$\delta(B,1) \rightarrow A$

 $\delta(Bc,1) \rightarrow C$

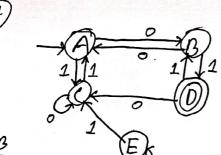
10-1	state)
Cread	11416)
	현실 인식량하는 일 라이트 ()



	0	1
A	B	A
B	D	A
e	A	C
*0	e	B
E	P	9



(Unreachable State)



$$\frac{AB}{\delta(A,\circ) \to B} \\
\delta(B,\circ) \to A$$

$$\delta(B,1) \rightarrow D$$

$$\frac{AC}{\delta(A,0) \rightarrow B}$$

$$\delta(C,O) \rightarrow C$$

$$\delta(A,1) \rightarrow C$$

$$\delta(c,1) \rightarrow A$$

$$\frac{\mathcal{B}(\mathcal{B}, \circ) \to A}{\delta(\mathcal{B}, \circ) \to A}$$

$$\delta(B,1) \rightarrow 0$$

$$\frac{AE}{\delta(A,O) \to B}$$

$$\frac{BE}{\delta(B,O)} \to A$$

$$S(B,1) \rightarrow D$$

$$S(c,0) \rightarrow c$$

$$\delta(E, 0) \rightarrow E$$

$$\delta(c,1) \rightarrow A$$

$$b(E,1) \rightarrow C$$

DE

$$S(E,O) \rightarrow E$$

$$S(E,1) \rightarrow C$$

А	A	L	3 (D	E
B	~					
2	1.					
D	~	~	~	1 7		
E	.~	~	~	1		
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A	B	6	D	E

		10	11
	A	B	(
	B	A	D
•	C	(A
×	D	(B
_	E	E	1

