

NORTH SOUTH UNIVERSITY

Department of Electrical and Computer Engineering

Assignment – 02

Name : Joy Kumar Ghosh

Student ID : 2211424 0 42

Course No. : CSE 273

Course Title : Introduction to Theory of Computation

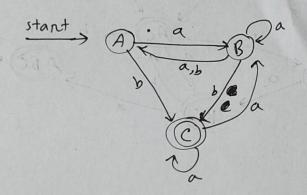
Section : 3

Date : 20 February 2025

Worst Care NFA to DFA Convension

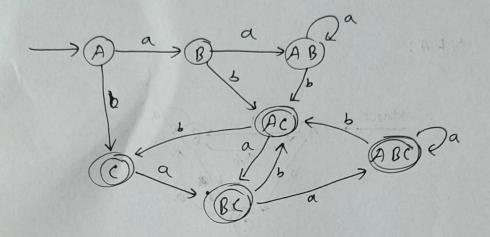
NFA = DFA-1!

NFA:



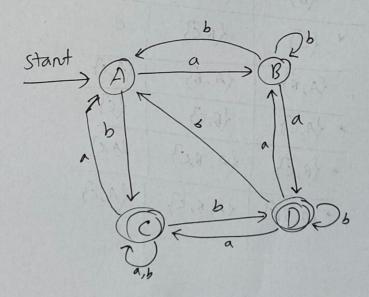
	a	Ь
$\rightarrow \overline{\{\hat{A}\}}$	(B)	(3)
{B}	(A.B)	{A,c}
* {c}	{B,C}	Φ
{A,B}	{A,B}	{A,c}
* {A.C}	{B,C}	(3)
* {8,6}	{A, B,C}	(2. A)
	{A,B,C}	(A,C)
* (A, B.C)		•

DFA:



NFA => DFA-2:

NFA:



$\rightarrow \{\hat{A}\}$	{B}	{2}
{B}	{0}	(A,B)
(2)	(S. A)	{c, D}
{0}	{B,C}	{A.D}
{A,B}	{R,D}	(A,B,C)
(7.A)	{A,B,C}	{c,0}
{A, 0}	{B, c}	{A,c,D}
(8.3)	{A,C,D}	{A,B,C,D}
{B.D}	{B, c, o}	{A,B,D}
{c, p}	{A, B, C}	{A,(,)}
{A,B,C}	[A,B,C,B]	{A,B,C,D}
{A,B,D}	7	{A, B, (, 0}
{A, (,)}	{A,B,E}	{A.C.D}
{B, (,D)	1	[A,B,C,D]
(A,B,C,1	6	{A,0,c,0}

