

HOME TASK 04.

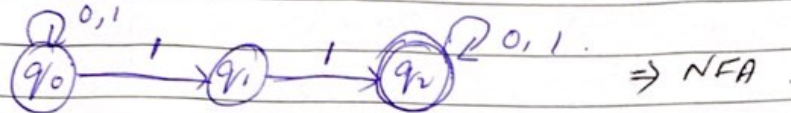
Date: _____

BASIL ALI KHAN

20K-0477

Q #01

$L = \{ 11, 011, 111, 110, 0011, 1100, 0111 \}$

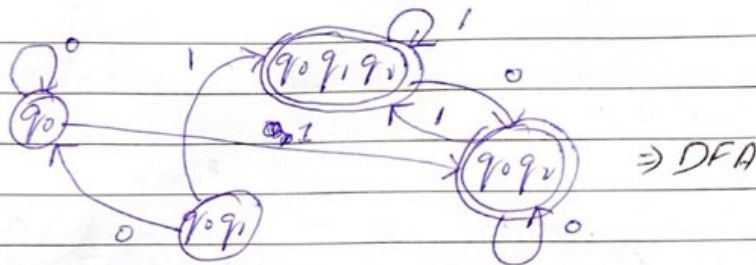


TT for NFA

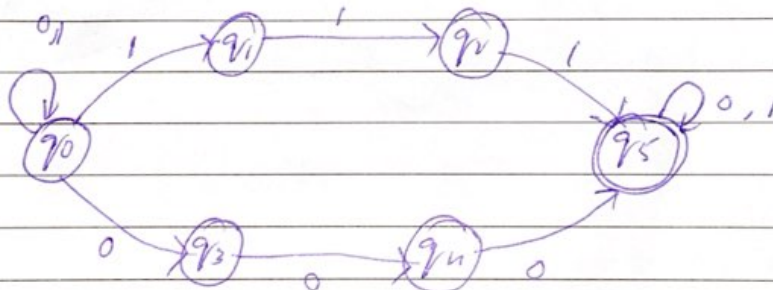
	0	1
q_0	q_0	$q_0 q_1$
q_1		q_2
q_2	q_2	q_2

TT for DFA

	0	1
q_0	q_0	$q_0 q_1$
q_1	q_1	$q_0 q_1 q_2$
q_2	$q_0 q_1 q_2$	$q_0 q_2$
	$q_0 q_2$	$q_0 q_1 q_2$



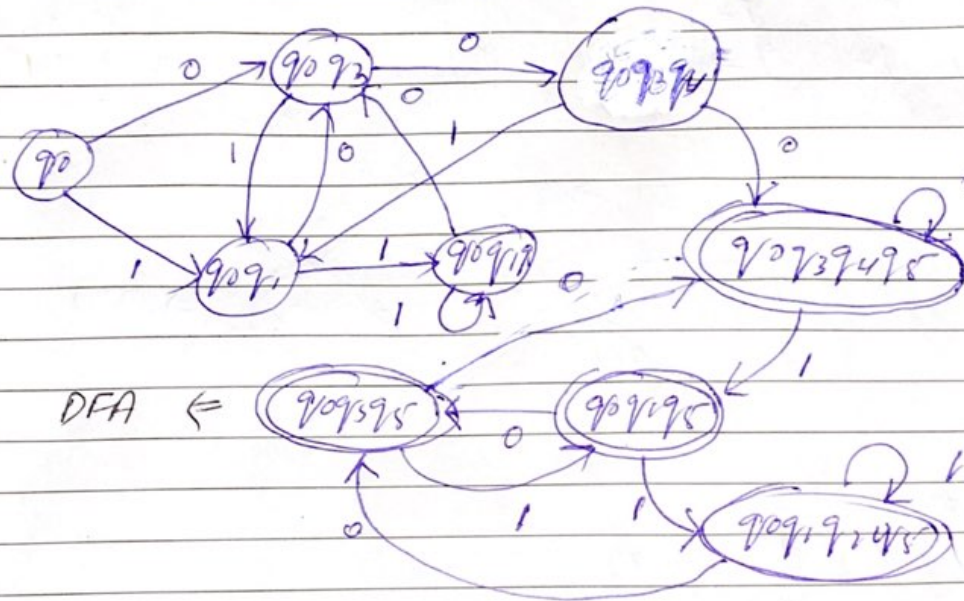
Q #02



\hookrightarrow NFA

Date: _____

TT for NFA			TT for DFA		
	0	1		0	1
q ₀	q ₀ q ₃	q ₀ q ₁	q ₀	q ₀ q ₃	q ₀ q ₁
q ₁	—	q ₂	q ₀ q ₃	q ₀ q ₃ q ₄	q ₀ q ₁
q ₂	q ₀ —	q ₅	q ₀ q ₁	q ₀ q ₃	q ₀ q ₁ q ₂
q ₃	q ₄	—	q ₀ q ₃ q ₄	q ₀ q ₃ q ₄ q ₅	q ₀ q ₁
q ₄	q ₅	—	q ₀ q ₁ q ₂	q ₀ q ₃	q ₀ q ₁ q ₂
q ₅	q ₅	q ₅	q ₀ q ₃ q ₄ q ₅	q ₀ q ₃ q ₄ q ₅	q ₀ q ₁ q ₅
			q ₀ q ₁ q ₅	q ₀ q ₃ q ₅	q ₀ q ₁ q ₂ q ₅
			q ₀ q ₃ q ₅	q ₀ q ₃ q ₄ q ₅	q ₀ q ₁ q ₅
			q ₀ q ₁ q ₂ q ₅	q ₀ q ₃ q ₅	q ₀ q ₁ q ₂ q ₅



Date: _____

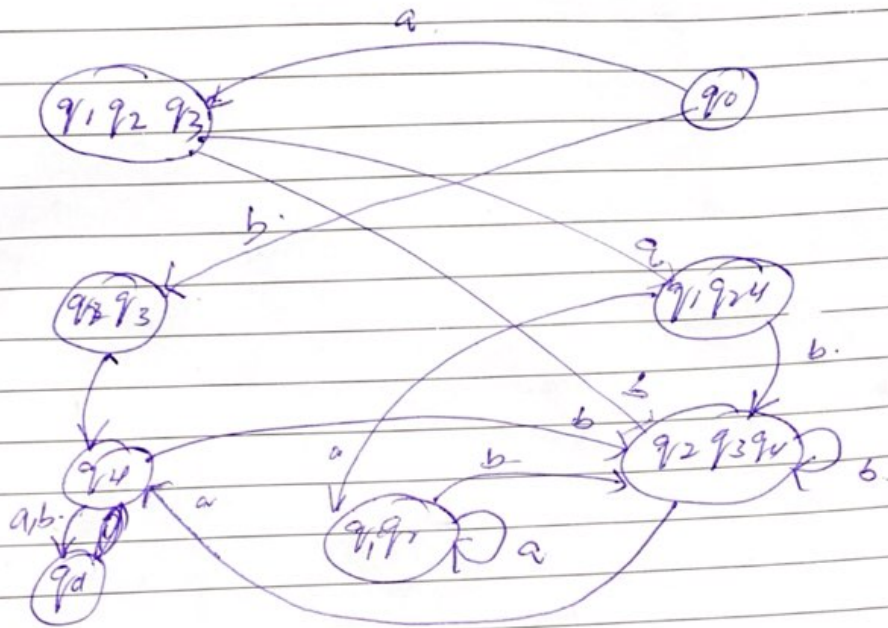
Q # Q3

TT for NFA

	a	b
q ₀	q ₁ q ₂ q ₃	q ₂ q ₃
q ₁	q ₁ q ₂	q ₂ q ₃ ⊙
q ₂	—	q ₂ q ₃ q ₄
q ₃	q ₄	q ₂ q ₃ q ₄
q ₄	—	—

TT for DF

	a	b
q ₀	q ₁ q ₂ q ₃	q ₂ q ₃
q ₁	q ₁ q ₂ q ₃	q ₂ q ₃ q ₄
q ₂	q ₄	q ₂ q ₃ q ₄
q ₃	q ₁ q ₂ q ₄	q ₂ q ₃ q ₄
q ₄	—	—
q ₂ q ₃ q ₄	q ₄	q ₂ q ₃ q ₄
q ₁ q ₂	q ₁ q ₂	q ₂ q ₃ q ₄



Date: _____

Q#04

unable to understand 1

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