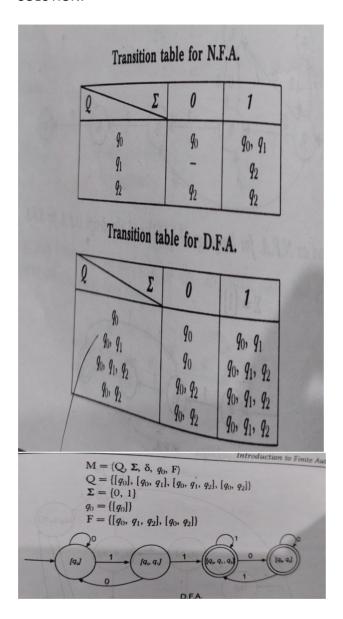
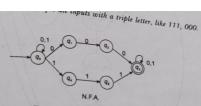
1. Design NFA which accepts all inputs with a 11 and also construct DFA. SOLUTION:



2. Design an NFA that accepts all inputs with a triple letter like 111,000. SOLUTION.

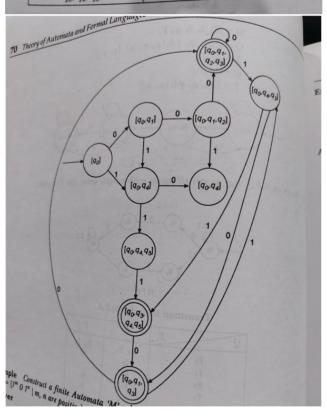


Transition table for N.F.A.

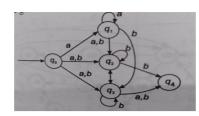
Q E	0	1
90	90, 91	90, 94
91	92	70, 44
92	93	1/-
93	93	93
94		95
95	Will-	93

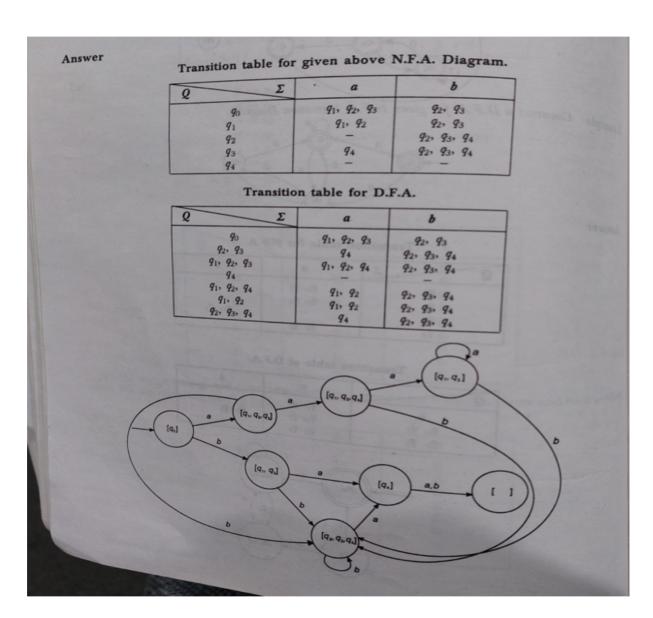
Transition table for D.F.A.

Q E	0	1
90	90= 91	90, 94
90. 91	90, 91, 92	qu 94
90, 94	90. 91	90, 94, 95
90, 91, 92	90, 91, 92, 93	90, 94
90, 94, 95	90× 91	q ₀ , q ₃ , q ₄ , q
90. 91. 92. 93	90, 91, 92, 93	90, 94, 93
90, 93, 94, 95	90, 91, 93	90, 94, 93, 9
90, 91, 93	90, 91, 92, 93	90, 94, 93
90, 94, 93	90, 91, 93	90, 94, 95,

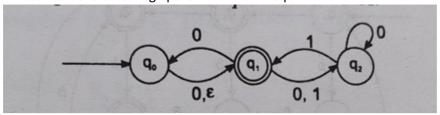


3. Convert the following NFA TO an equivalent DFA





4. Convert the following Epsilon NFA TO an equivalent DFA



Solution

