CSE303: Theory of Computation, Fall 2021 **Date:** 09/15/2021

Homework # 1

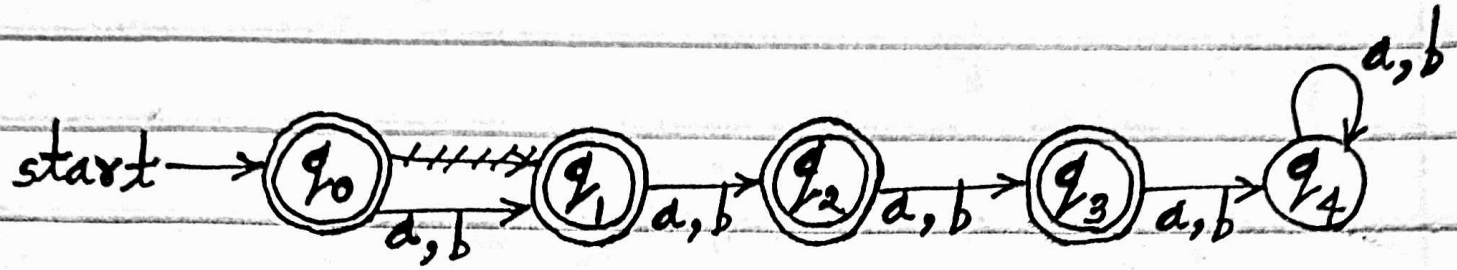
(Due: 09/23/2021 **)**

GROUP NUMBER: 33

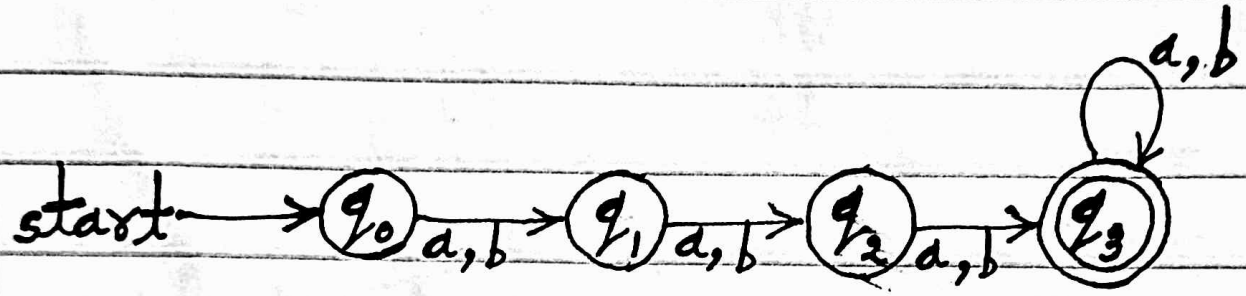
Group Members		
Name	SBU ID	% Contribution
Saurabh Jayesh Parekh	114356444	100%

CS303: Homework #1

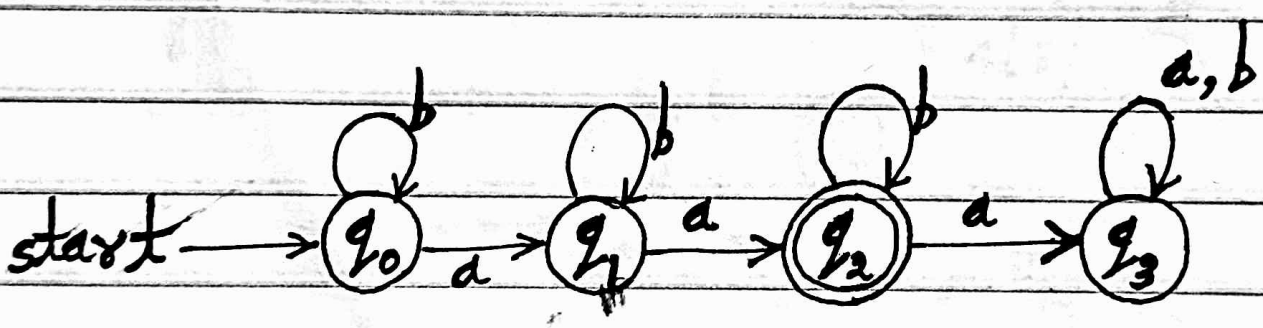
(a)



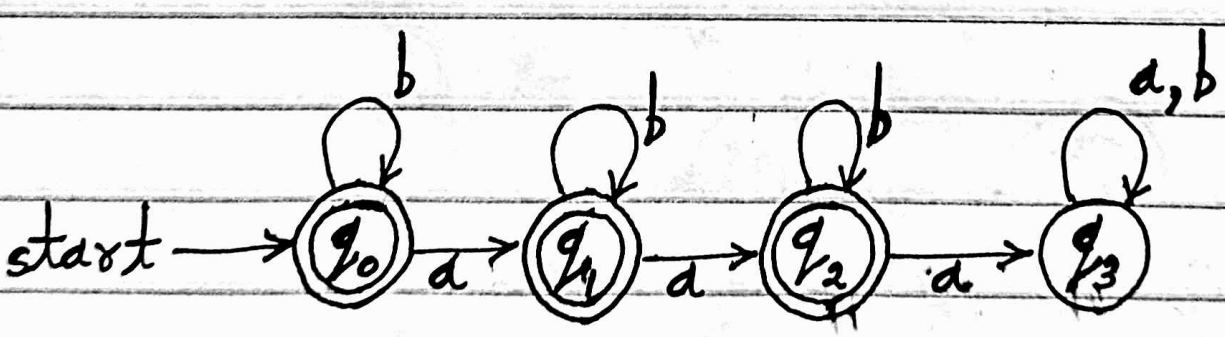
(b)



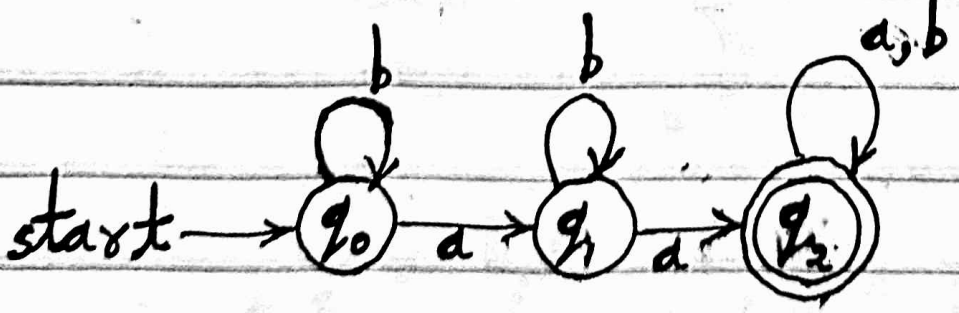
(c)



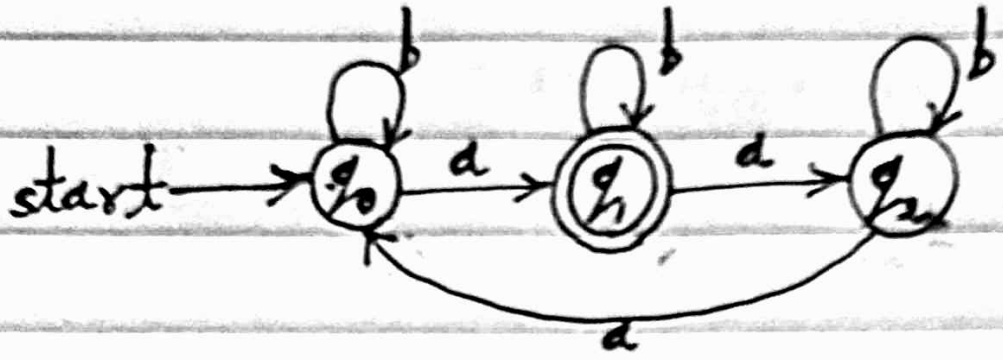
(d)



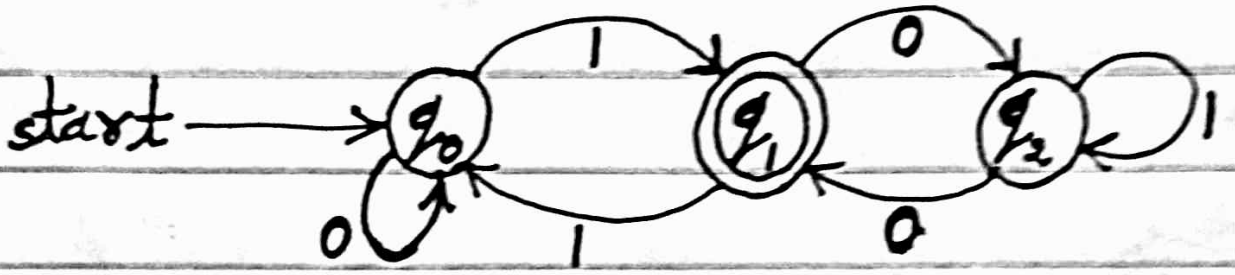
(e)



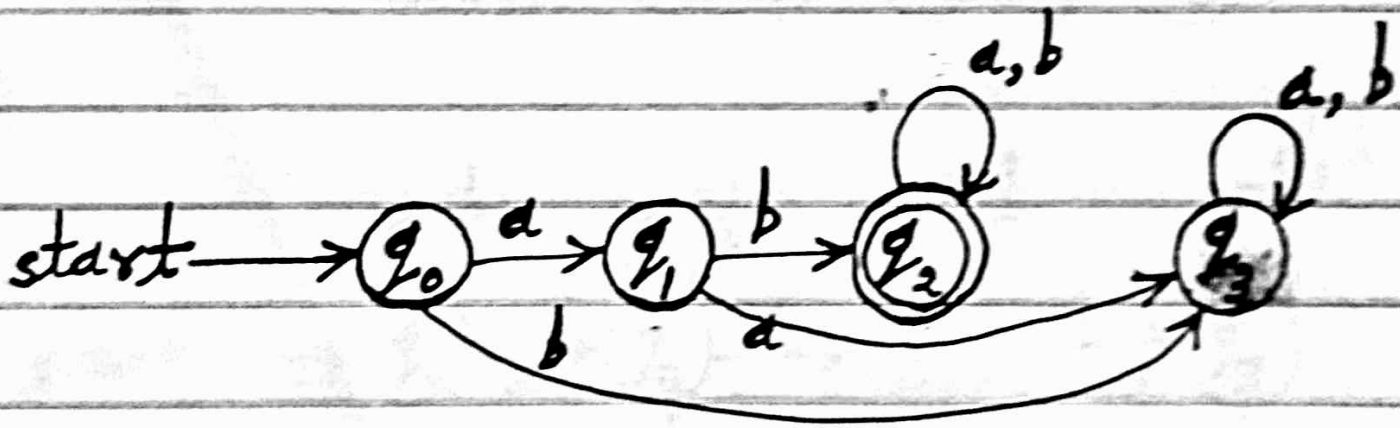
(f)


start
q_0
q_1
q_2
a
a
a
b
b
b

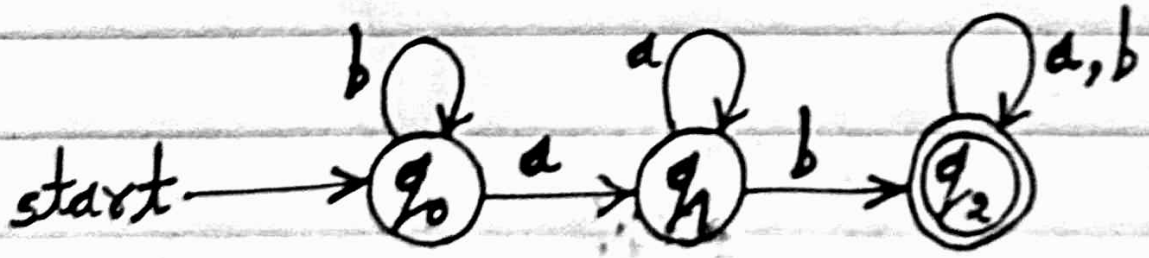
(g)


start
q_0
q_1
q_2
1
0
1
0
1
0

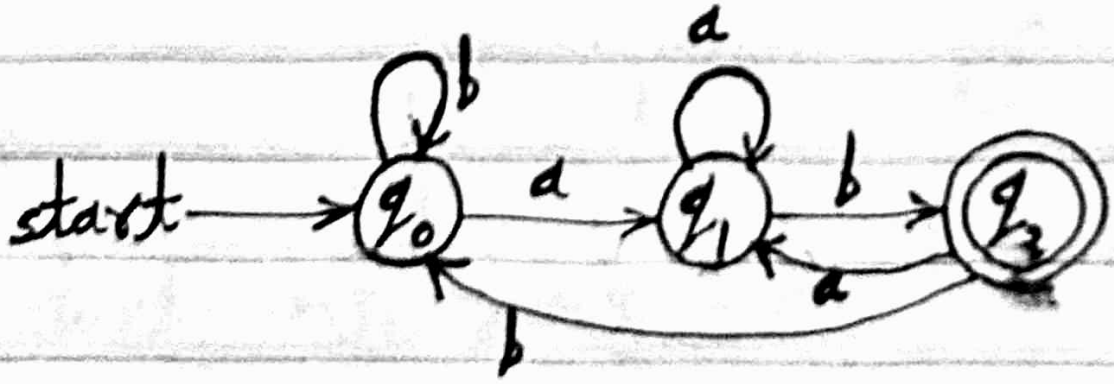
(h)


start
q_0
q_1
q_2
q_3
a
b
b
a
a, b
a, b

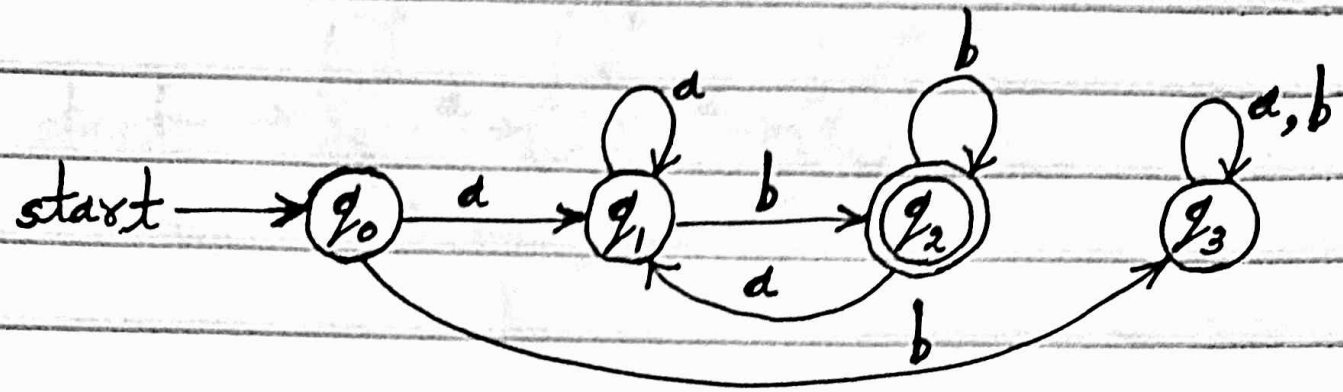
(i)


start
q_0
q_1
q_2
a
b
b
a
a, b

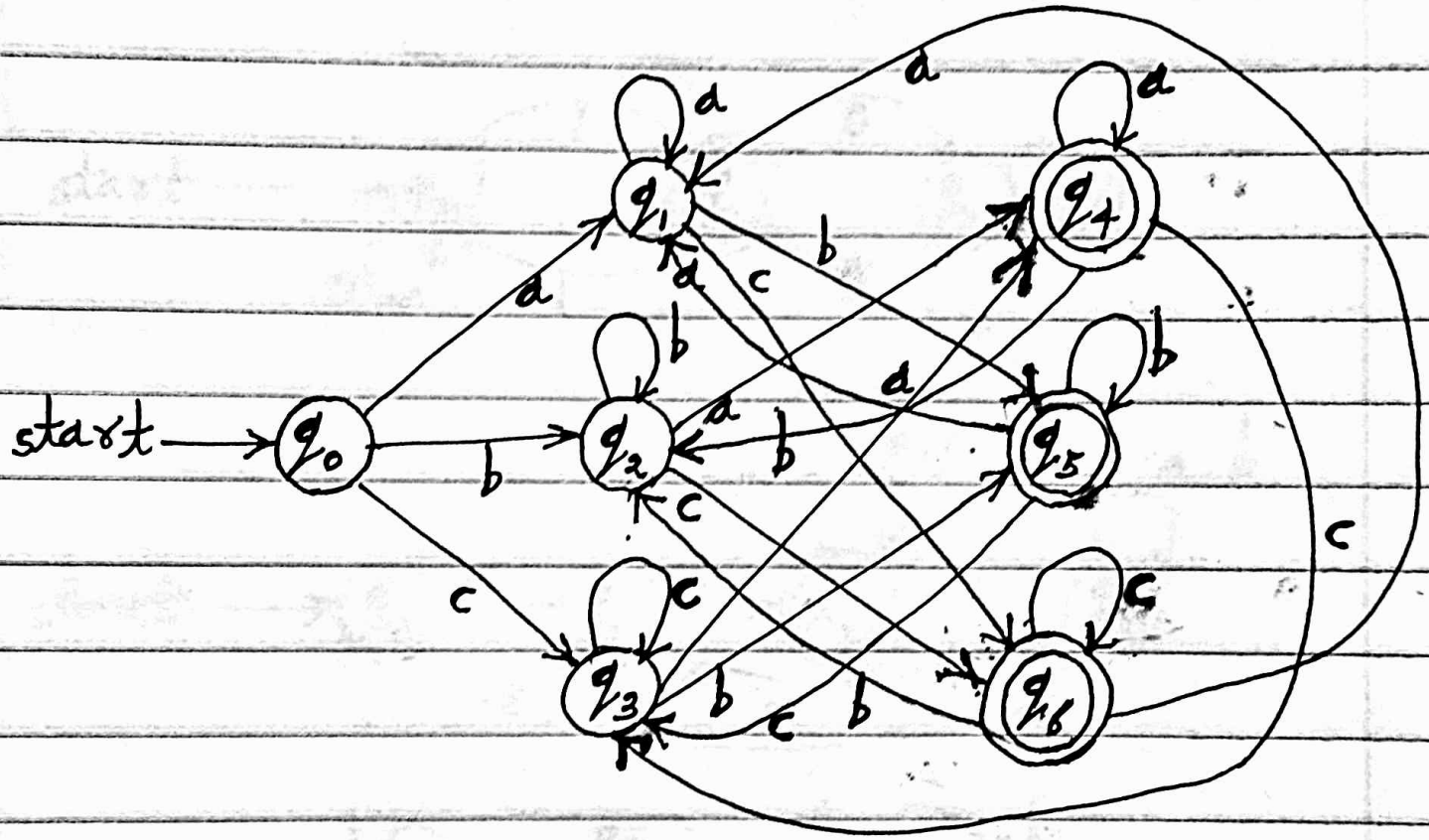
(j)


start
q_0
q_1
q_2
a
b
b
a
a
b

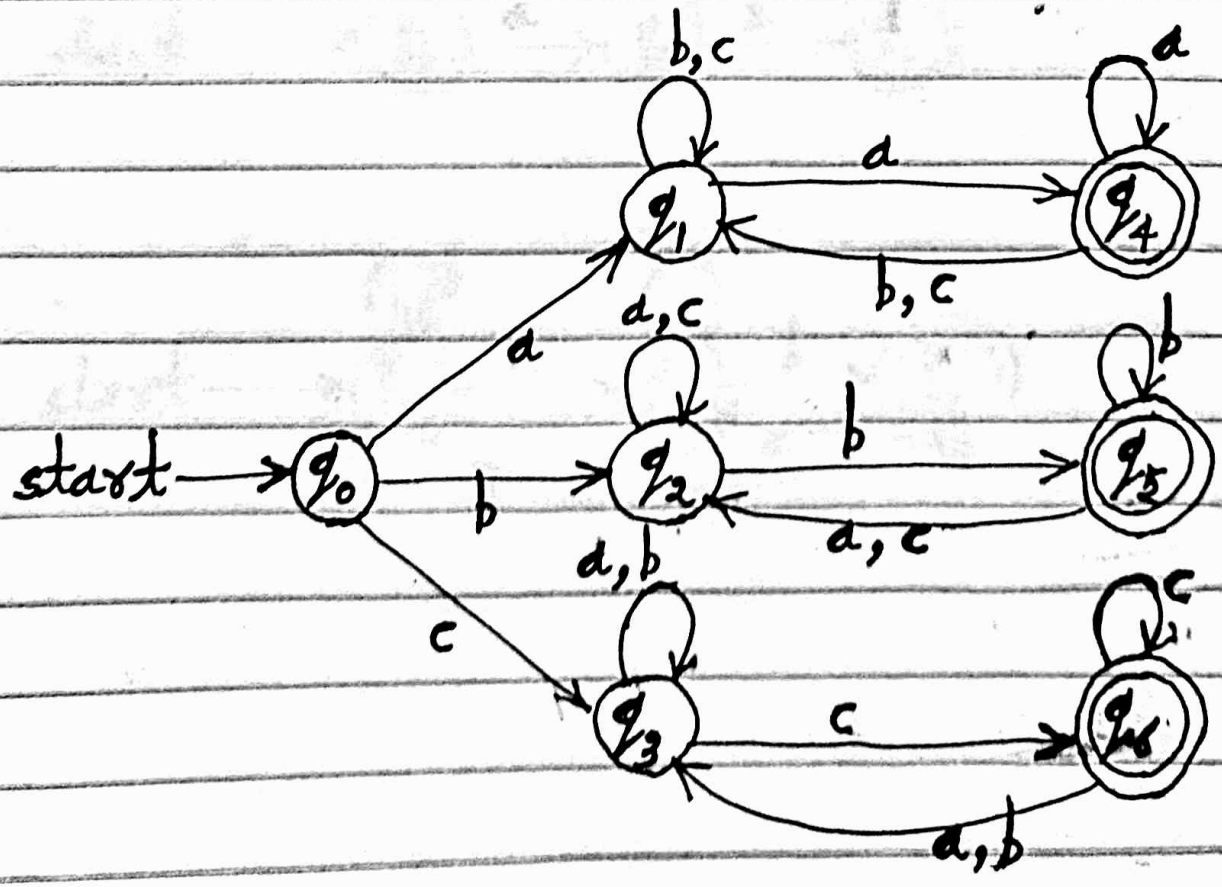
(k)


start
q_0
q_1
q_2
q_3
a
b
a, b

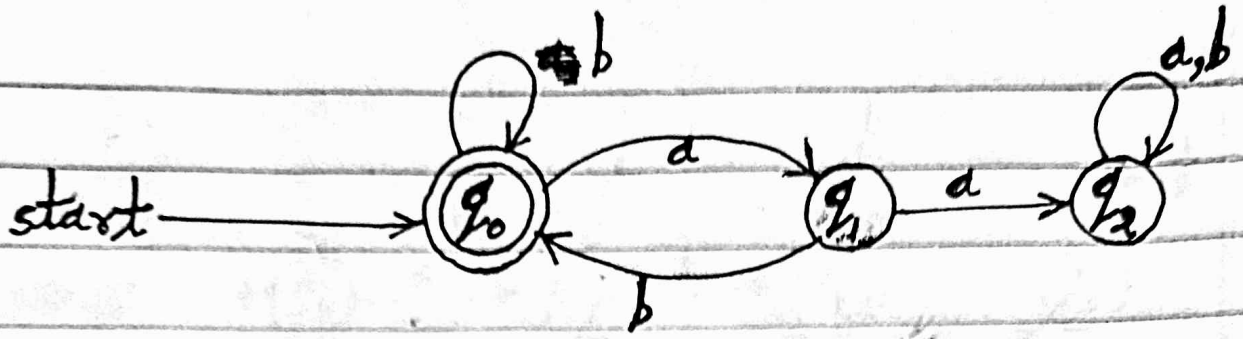
(l)


start
q_0
q_1
q_2
q_3
q_4
q_5
q_6
a
b
c

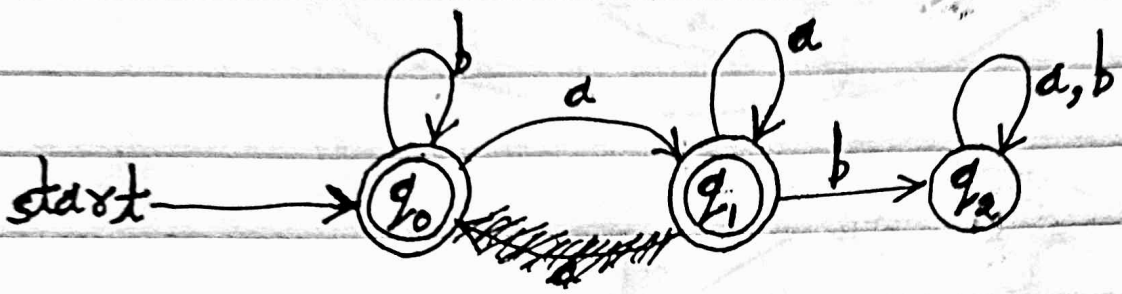
(m)


start
q_0
q_1
q_2
q_3
q_4
q_5
q_6
a
b
c
b, c
a, c
a, b

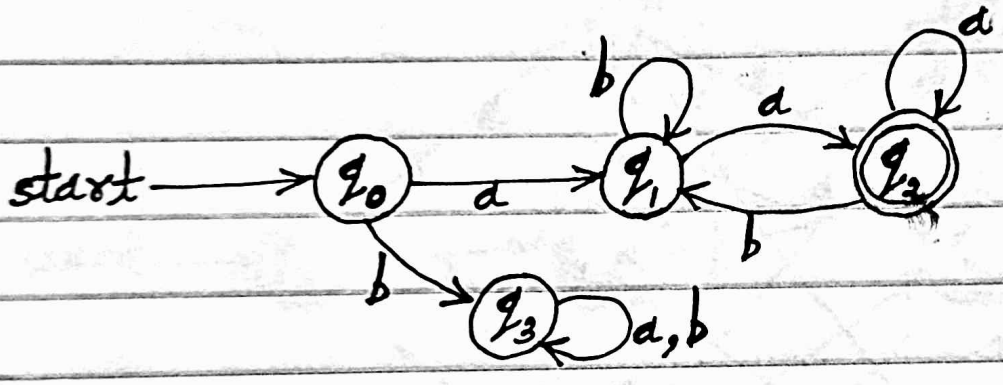
(n)


start
q_0
q_1
q_2
a
b
a,b

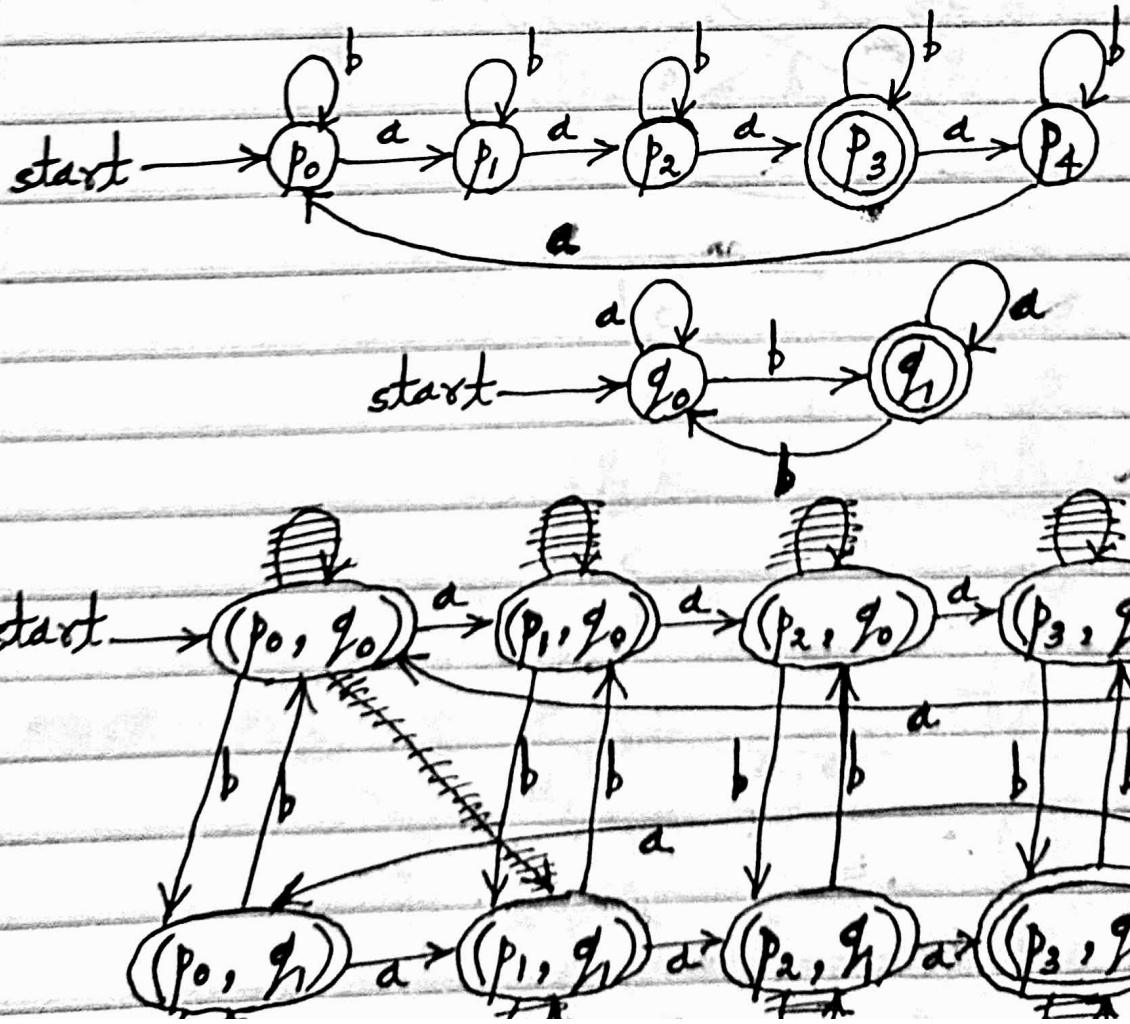
(o)


start
q_0
q_1
q_2
a
b
a,b

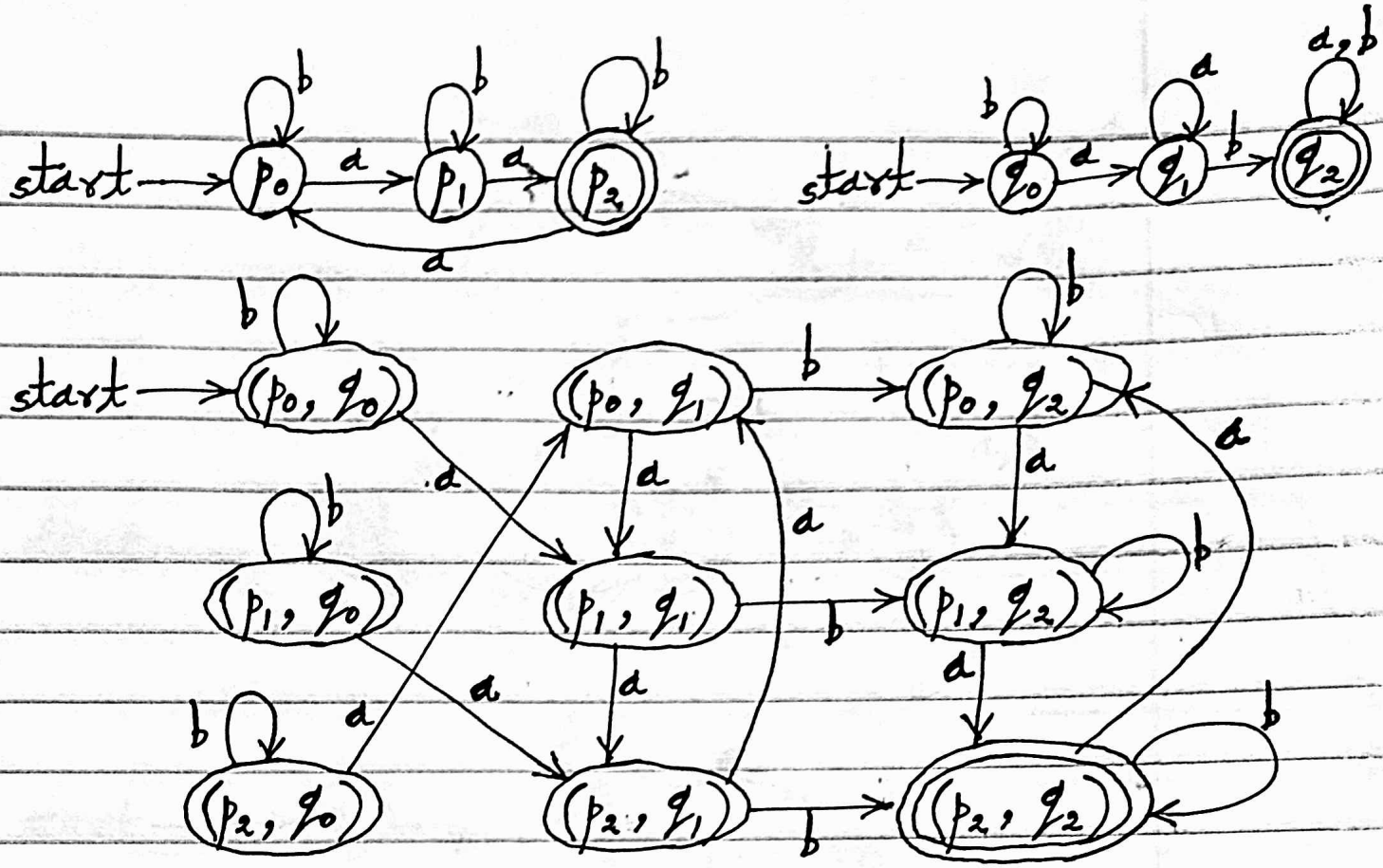
(p)


start
q_0
q_1
q_2
q_3
a
b
a,b

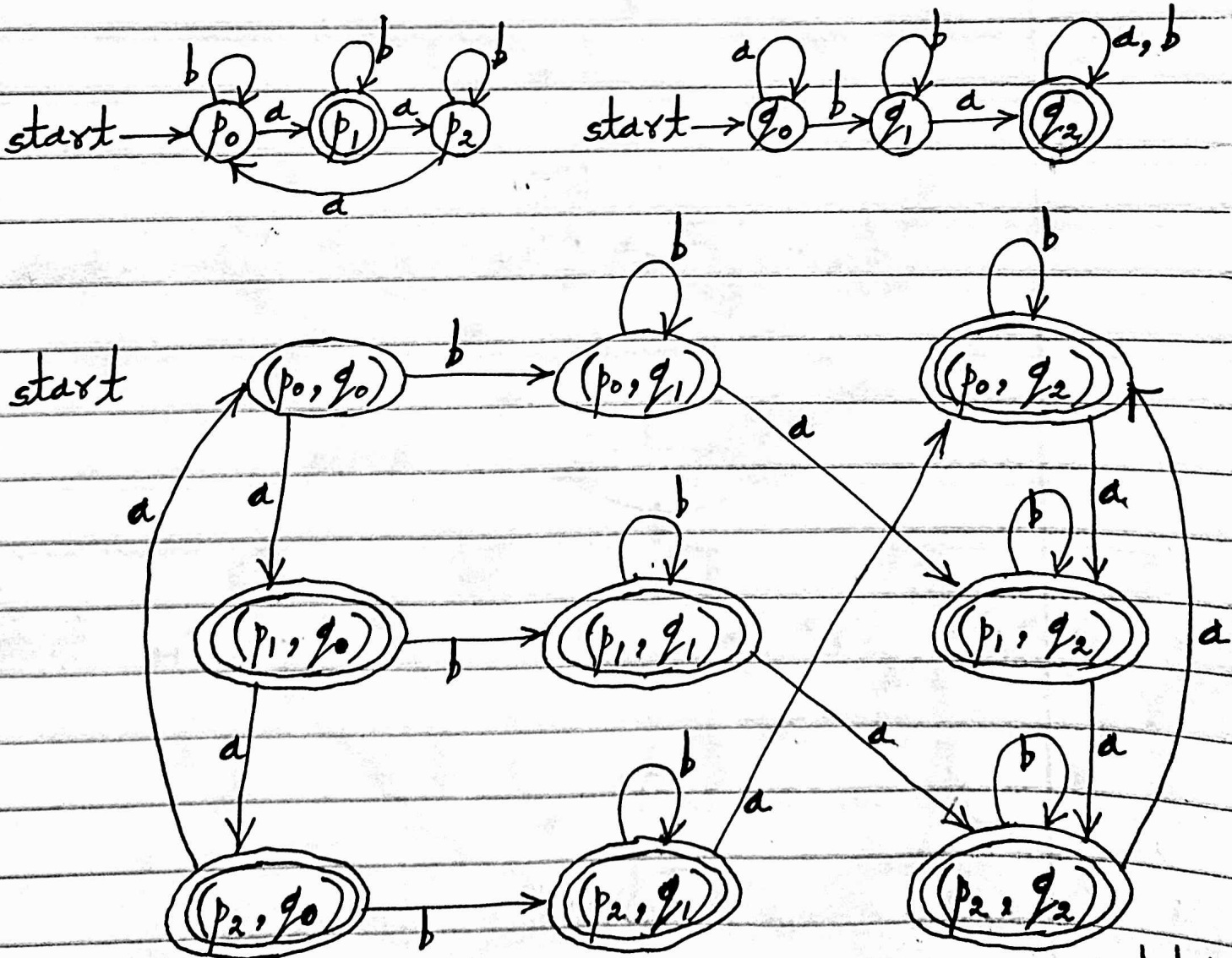
(q)

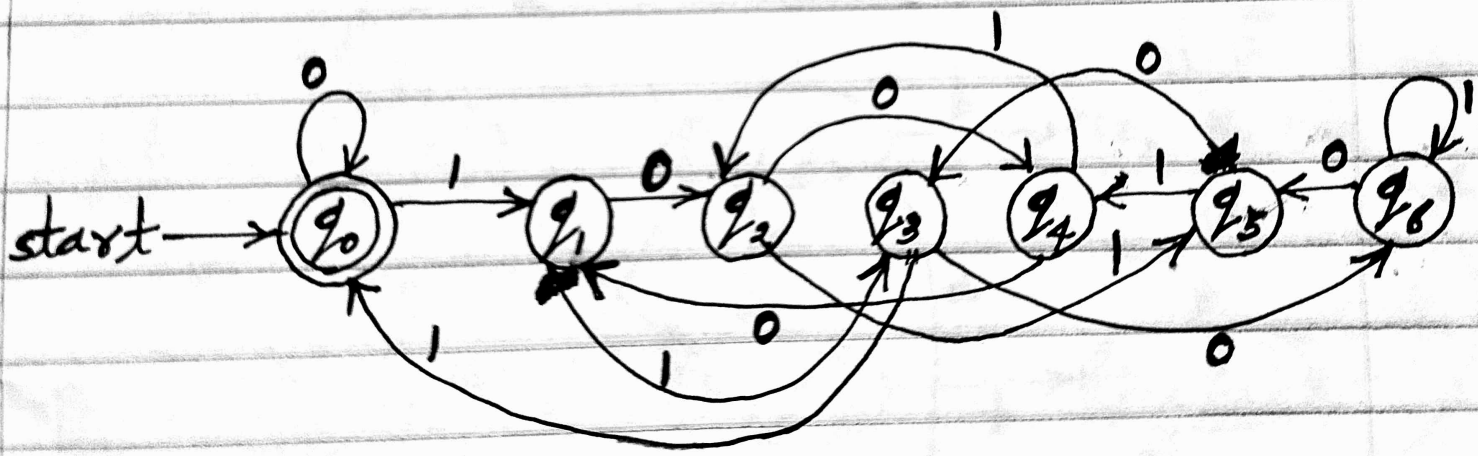

start
p_0
p_1
p_2
p_3
p_4
q_0
q_1
(p_0, q_0)
(p_1, q_0)
(p_2, q_0)
(p_3, q_0)
(p_4, q_0)
(p_0, q_1)
(p_1, q_1)
(p_2, q_1)
(p_3, q_1)
(p_4, q_1)
a
b

(r)



(s)



(p_2, q_0) and (p_2, q_1) WONT BE FINAL STATES (Marked by mistake)

(七)