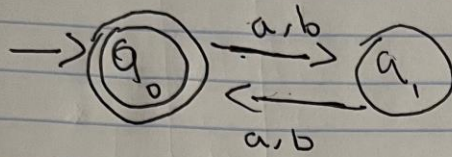
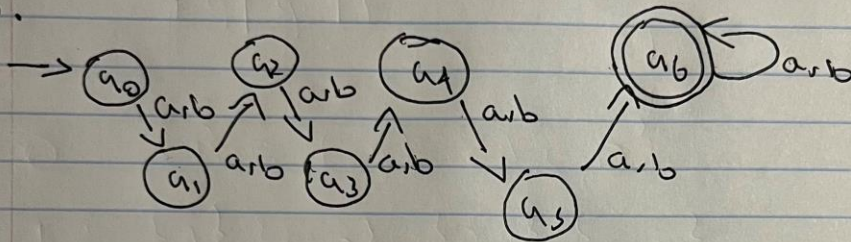


1a, 1b, 1c, 1d

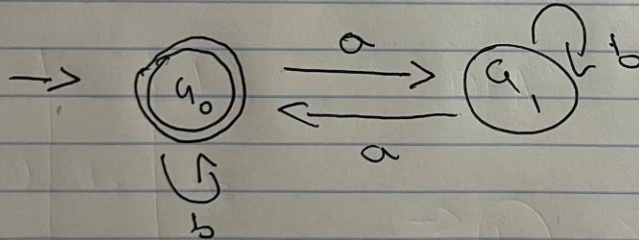
1a.



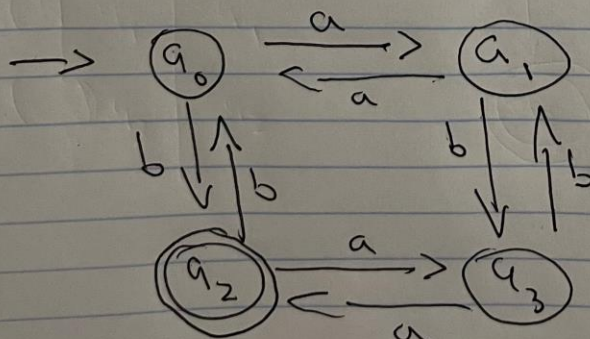
1b.



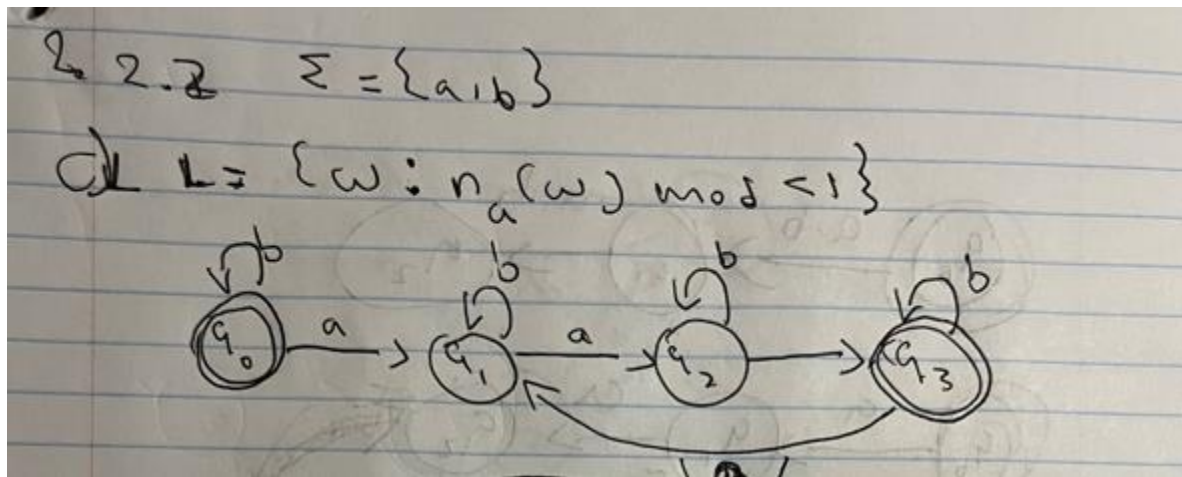
1c.



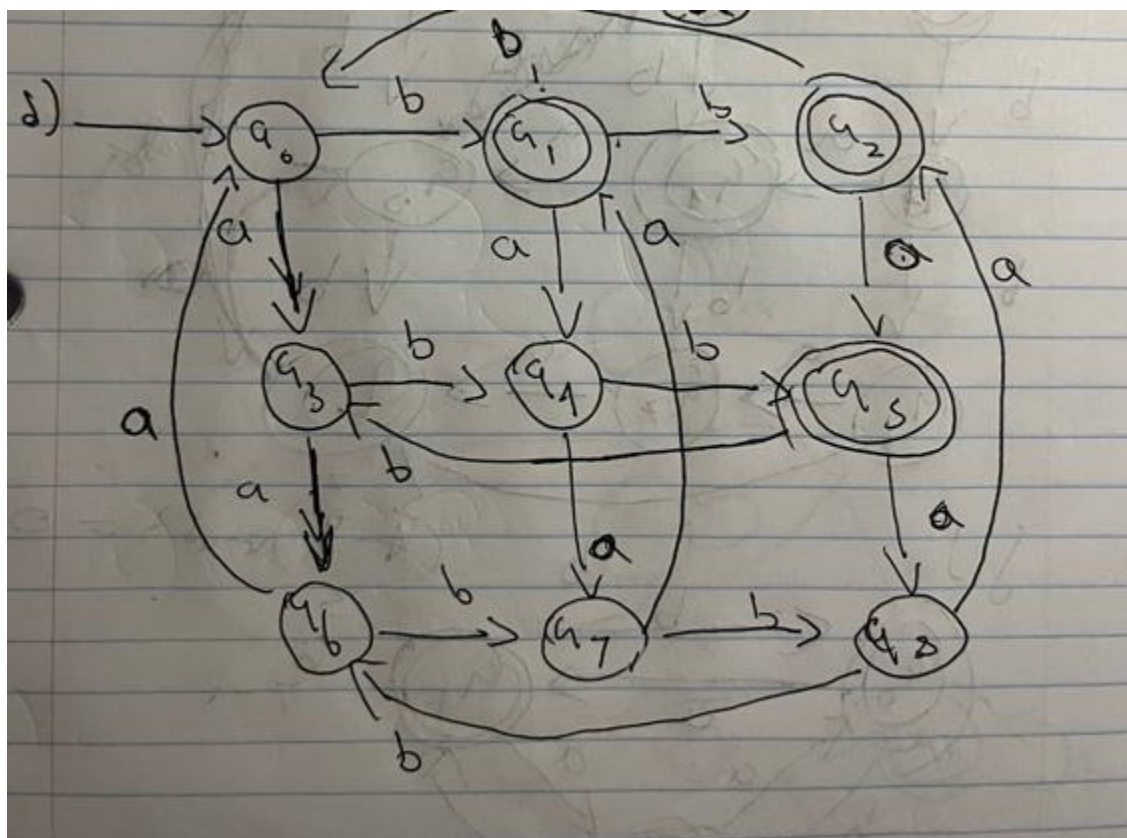
1d.



2c

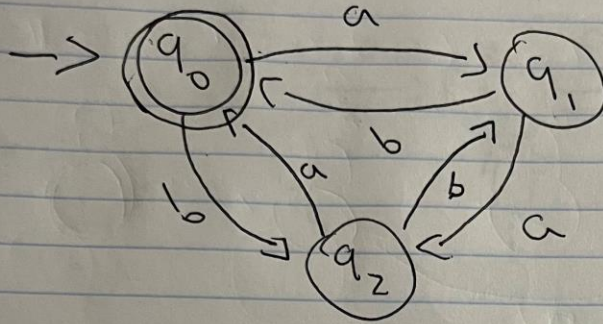


2d.

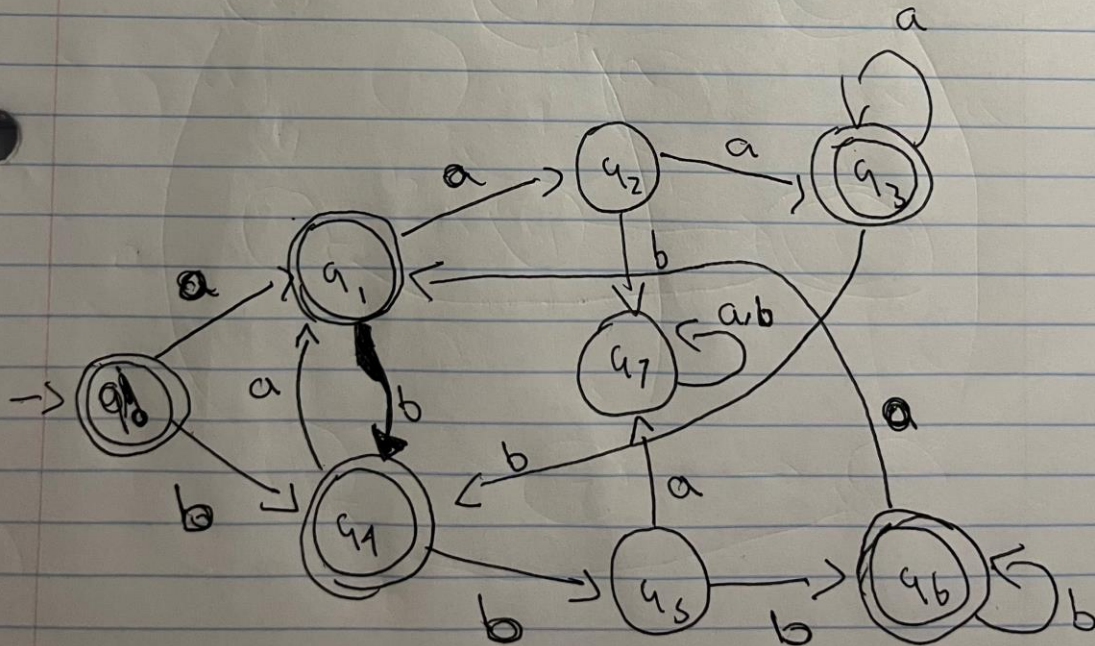


2e, 3a

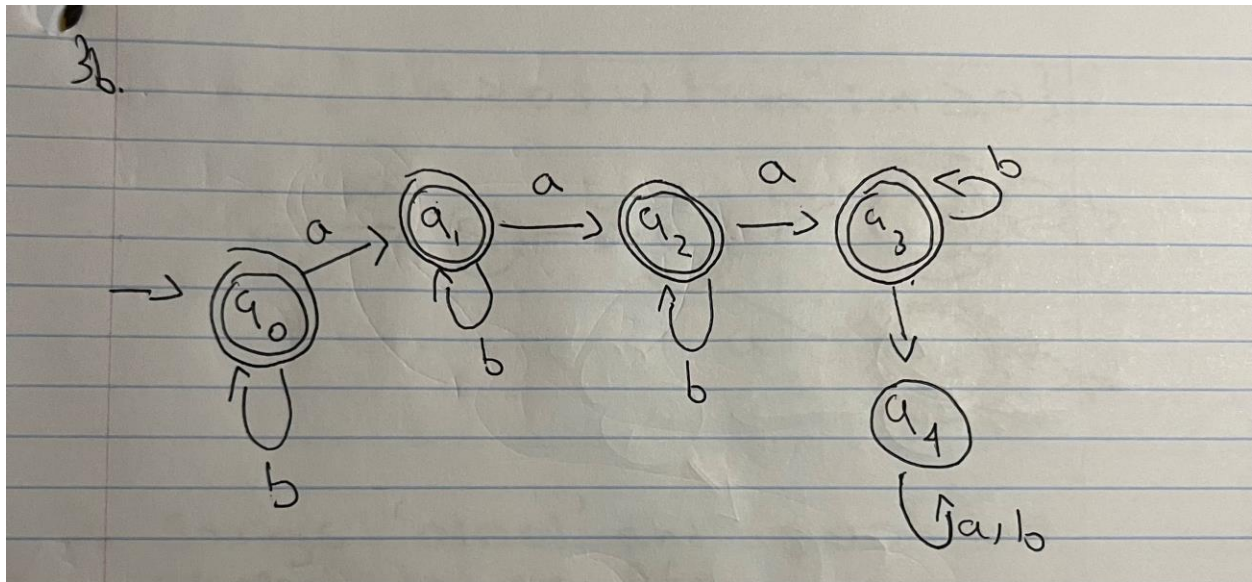
2e.



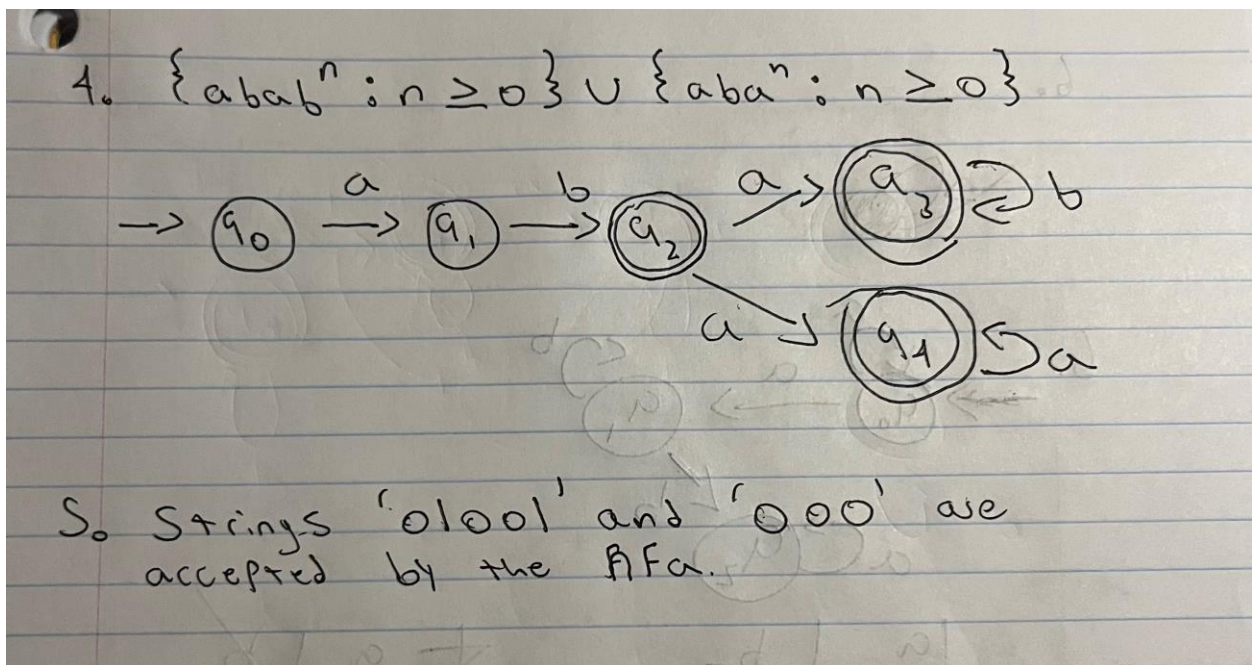
3.a



3b

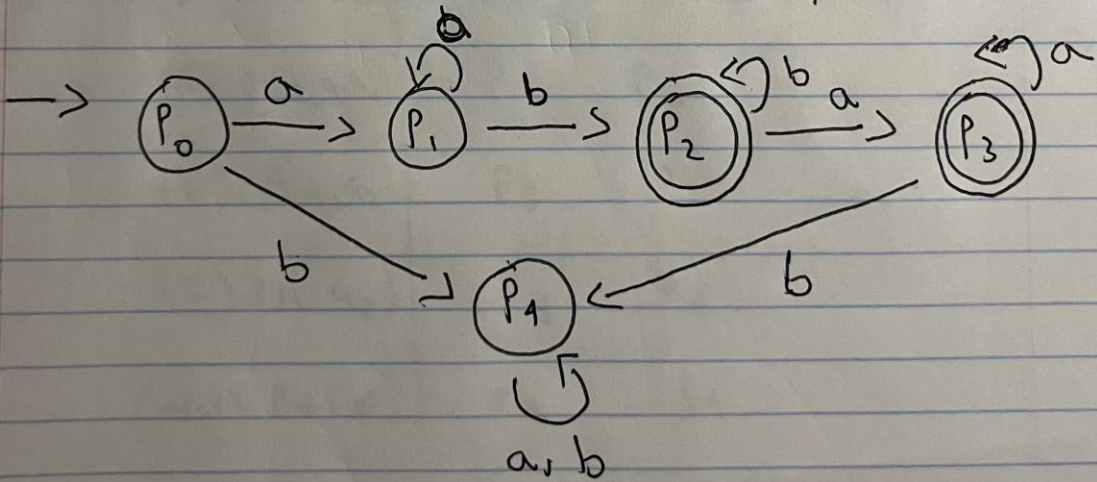


4, 5



6.

	a	b		a	b
q_0	$q_0 q_1$	\emptyset	$P_0(q_0)$	P_1	P_4
q_1	\emptyset	$q_1 q_2$	$P_1(q_0 q_1)$	P_1	P_2
q_2	q_2	\emptyset	$P_2(q_1 q_2)$	P_3	P_2
			$P_3(q_2)$	P_3	P_4
			P_4	P_4	P_4



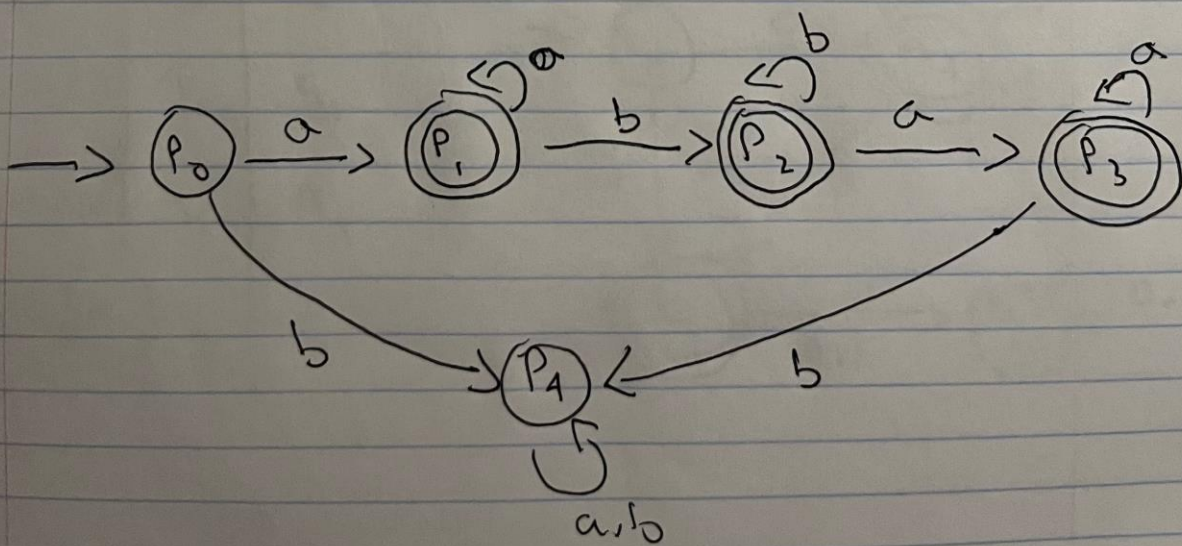
7.

	a	b	Δ
q_0	$q_0 q_1$	\emptyset	\emptyset
q_1	\emptyset	$q_1 q_2$	$q_1 q_2$
q_2	q_2	\emptyset	\emptyset

 \rightarrow

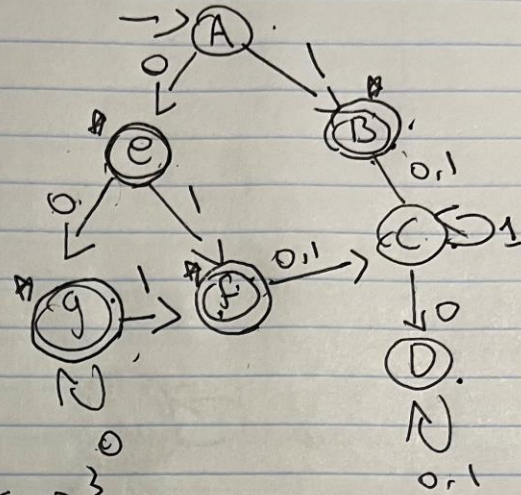
	a	b
q_0	$q_0 q_1 q_2$	\emptyset
q_1	\emptyset	$q_1 q_2$
q_2	q_2	\emptyset

	a	b
$\rightarrow (S) p_0$	p_1	p_4
$(F) p_1(q_0 q_1 q_2)$	p_1	p_2
$(F) p_2(q_1 q_2)$	p_3	p_2
$(F) p_3(q_2)$	p_3	p_4
$(+rap) p_4(\emptyset)$	p_4	p_1



8.

	0	1
A	e	B
* B	C	C
C	D	C
D	D	D
* e	g	f
* f	C	C
* g	g	F



0 : {B, e, f, g}, {A, C, D}

1 : {A}, {C, D}, {B, f}, {e, g}

2 : {A}, {C, D}, {B, f}, {e, g}

	0	1
$q_0(A)$	q_3	q_2
$q_1(C, D)$	q_1	q_1
$q_2(B, f)$	q_1	q_1
$q_3(e, g)$	q_3	q_2

DFA:

