

# January

WEEK 4

026/340 Sunday 26

February 2020							March 2020							April 2020						
M	3	10	17	24			M	30	2	9	16	23		M	6	13	20	27		
T	4	11	18	25			T	31	3	10	17	24		T	7	14	21	28		
W	5	12	19	26			W		4	11	18	25		W	8	15	22	29		
T	6	13	20	27			T		5	12	19	26		T	1	8	15	22	29	30
F	7	14	21	28			F		6	13	20	27		F	2	9	16	23		
S	1	8	15	22	29		S		7	14	21	28		S	3	10	17	24		
S	2	9	16	23			S	1	8	15	22	29		S	4	11	18	25		

Australia Day (AU) Lunar New Year Holiday (CN)

8.00 am

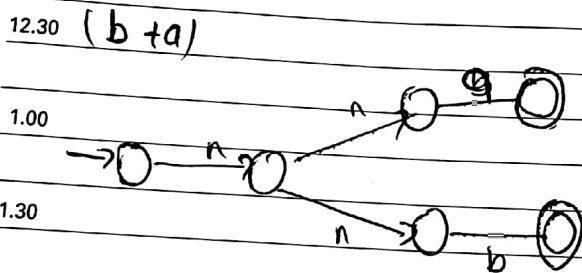
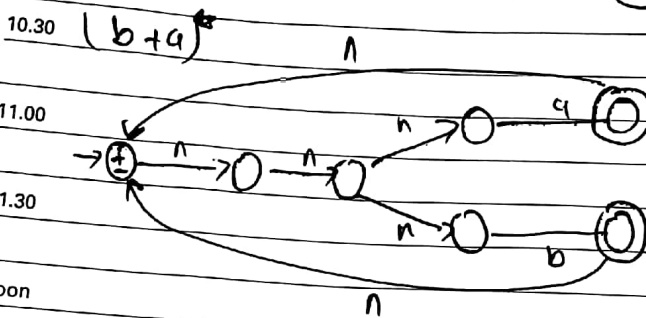
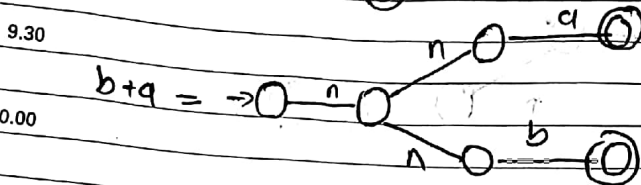
$$① ((b+a)^n | (b|a)^n) (ab)^n$$

8.30

$$b = 0 \rightarrow b \text{ (b)}$$

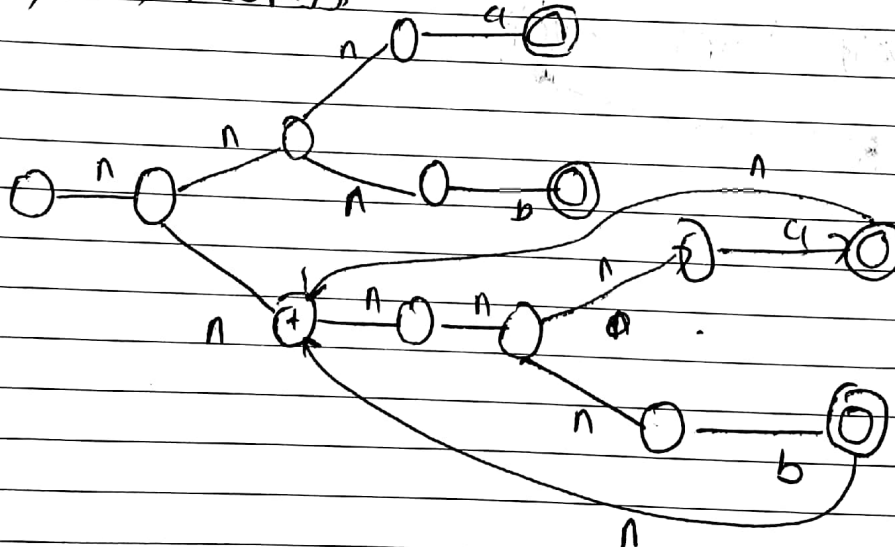
9.00

$$a = 0 \rightarrow a \text{ (a)}$$



2.00

$$\{(b|a)^n | (b|a)^n\}$$



Muhammad Affikhan  
P180054  
Section - A

February 2020

M	3	10	17	24
T	4	11	18	25
W	5	12	19	26
T	6	13	20	27
F	7	14	21	28
S	1	8	15	22
S	2	9	16	23

March 2020

M	30	2	9	16	23
T	31	3	10	17	24
W		4	11	18	25
T		5	12	19	26
F		6	13	20	27
S		7	14	21	28
S	1	8	15	22	29

April 2020

M	6	13	20	27
T	7	14	21	28
W	1	8	15	22
T	2	9	16	23
F	3	10	17	24
S	4	11	18	25
S	5	12	19	26

# January

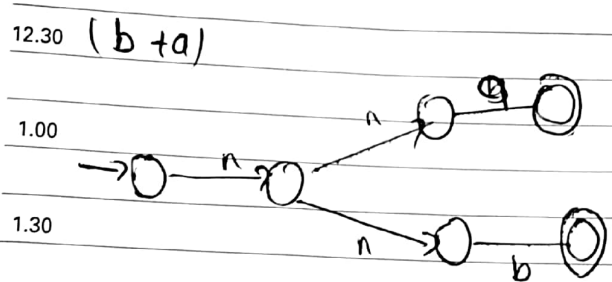
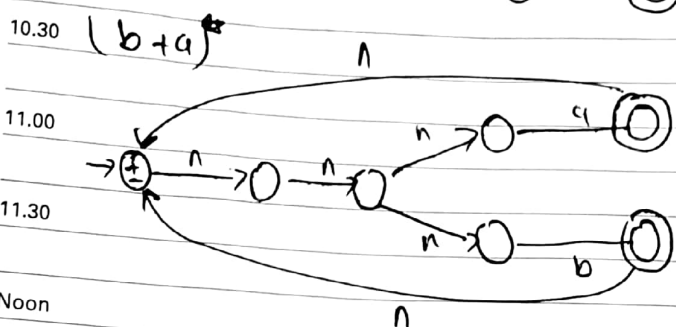
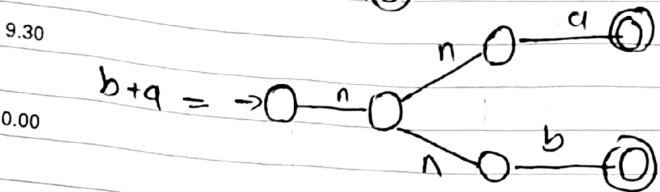
WEEK 4

Australia Day (AU) Lunar New Year Holiday (CN)

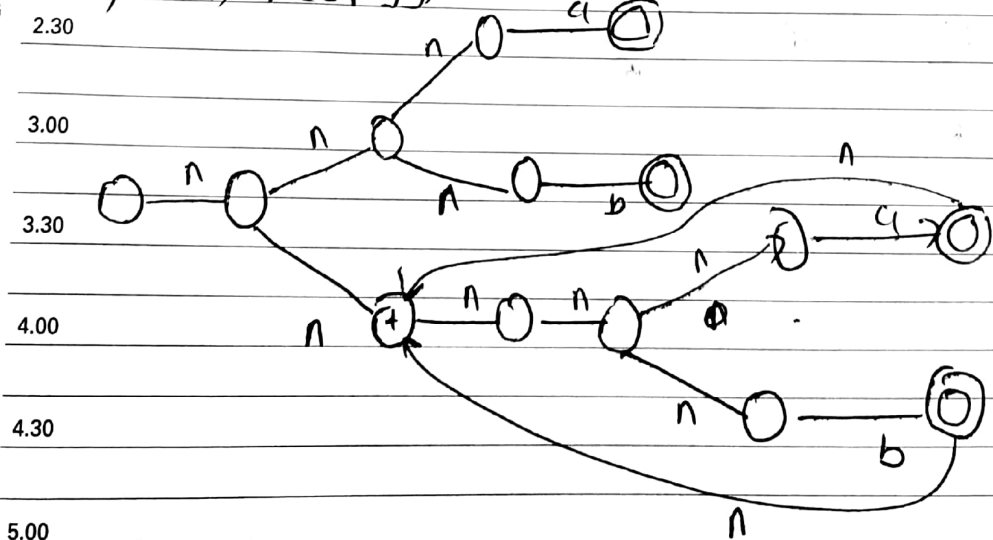
026/340 Sunday 26

8.00 am  
 ①  $((b+a)^* | (b|a))^* (ab)^*$

8.30  
 $b = \text{O} \xrightarrow{b} \text{O}$   
 $a = \text{O} \xrightarrow{a} \text{O}$



2.00  
 $\{(b|a)^* | (b|a)\}$



Muhammad Jftikhar  
 P180054  
 Section - A

# January

WEEK 5

November 2019

M	4	11	18	25
T	5	12	19	26
W	6	13	20	27
T	7	14	21	28
F	1	8	15	22
S	2	9	16	23
S	3	10	17	24

December 2019

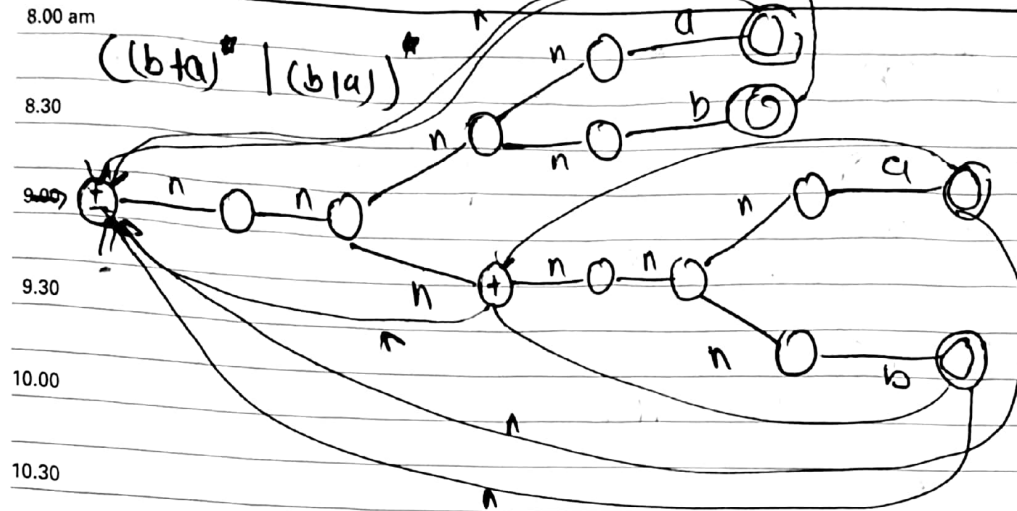
M	30	2	9	16	23
T	31	3	10	17	24
W		4	11	18	25
T		5	12	19	26
F		6	13	20	27
S		7	14	21	28
S	1	8	15	22	29

January 2020

M	6	13	20	27
T	7	14	21	28
W	1	8	15	22
T	2	9	16	23
F	3	10	17	24
S	4	11	18	25
S	5	12	19	26

## 27 Monday 027/339

Australia Day Holiday (AU) Lunar New Year Holiday (CN) Chinese New Year Holiday (SG)



11.00

$(ab)^*$

11.30

$a \rightarrow \text{node} \rightarrow a$

Noon

$b \rightarrow \text{node} \rightarrow b$

12.30

1.00

$\rightarrow \text{node} \rightarrow a \rightarrow \text{node} \rightarrow b \rightarrow \text{node}$

1.30

$(ab)^*$

2.00

2.30

3.00

3.30

4.00

4.30

5.00

6.00 pm

WEEK

028/338 Tuesday 2



February 2020

M	3	10	17	24
T	4	11	18	25
W	5	12	19	26
T	6	13	20	27
F	7	14	21	28
S	1	8	15	22
S	2	9	16	23

March 2020

M	30	2	9	16	23
T	31	3	10	17	24
W		4	11	18	25
T		5	12	19	26
F		6	13	20	27
S		7	14	21	28
S	1	8	15	22	29

April 2020

M	6	13	20	27
T	7	14	21	28
W	1	8	15	22
T	2	9	16	23
F	3	10	17	24
S	4	11	18	25
S	5	12	19	26

030/336 Thursday 30

Lunar New Year Holiday (CN)

8.00 am

$$(2) a(aa)^* + (a(aa)b + b)^*(d + a(aa)^*)$$

8.30

$$a \rightarrow \text{state transition diagram}$$

9.00

$$a^* \rightarrow \text{state transition diagram}$$

9.30

$$(aa)^* \rightarrow \text{state transition diagram}$$

10.00

$$\text{state transition diagram for } (aa)^*$$

10.30

$$a(aa)^*$$

11.00

$$\text{state transition diagram for } a(aa)^*$$

Noon

$$a(aa)^*b$$

12.30

$$\text{state transition diagram for } a(aa)^*b$$

1.30

$$(a(aa)^*b + b)^*$$

2.00

$$\text{state transition diagram for } (a(aa)^*b + b)^*$$

2.30

$$\text{state transition diagram for } (a(aa)^*b + b)^*$$

3.30

$$\text{state transition diagram for } (a(aa)^*b + b)^*$$

4.00

$$\text{state transition diagram for } (a(aa)^*b + b)^*$$

5.00

6.00 pm

# January

WEEK 5

November 2019

M	4	11	18	25
T	5	12	19	26
W	6	13	20	27
T	7	14	21	28
F	1	8	15	22
S	2	9	16	23
S	3	10	17	24

December 2019

M	30	2	9	16	23
T	31	3	10	17	24
W		4	11	18	25
T		5	12	19	26
F		6	13	20	27
S		7	14	21	28
S	1	8	15	22	29

January 2020

M	6	13	20	27
T	7	14	21	28
W	1	8	15	22
T	2	9	16	23
F	3	10	17	24
S	4	11	18	25
S	5	12	19	26

## 31 Friday 031/335

8.00 am

$$(d + a(aa)^*)$$

8.30

9.00

9.30

$$(a(aa)^*b + b)^*(d + a(aa)^*)$$

10.30

11.00

11.30

Noon

12.30

1.00

1.30

Now

2.00

$$a(aa)^* + (a(aa)^*b + b)^*(d + a(aa)^*)$$

2.30

3.00

3.30

4.00

4.30

5.00

6.00 pm

February 2020

M	3	10	17	24
T	4	11	18	25
W	5	12	19	26
T	6	13	20	27
F	7	14	21	28
S	1	8	15	22
S	2	9	16	23

March 2020

M	30	2	9	16	23
T	31	3	10	17	24
W		4	11	18	25
T		5	12	19	26
F		6	13	20	27
S		7	14	21	28
S	1	8	15	22	29

April 2020

M		6	13	20	27
T		7	14	21	28
W	1	8	15	22	29
T	2	9	16	23	30
F	3	10	17	24	
S	4	11	18	25	
S	5	12	19	26	

8.00 am Question #03

8.30 Input sequence aabab

9.00 Moore Machine

9.30

	a	a	b	a	b
10.00	q <sub>0</sub>	q <sub>2</sub>	q <sub>1</sub>	q <sub>1</sub>	q <sub>2</sub>
	1	1	0	0	1
10.30					

11.00 output = (110101)

11.30 Noon Mealy Machine

2.30

	a	a	b	a	b
1.00	q <sub>0</sub>	q <sub>0</sub>	q <sub>1</sub>	q <sub>1</sub>	q <sub>2</sub>
	0	0	1	1	0
30					

00 output = (00110)

# July

WEEK 30

August 2020

M	31	3	10	17	24
T		4	11	18	25
W		5	12	19	26
T		6	13	20	27
F		7	14	21	28
S	1	8	15	22	29
S	2	9	16	23	30

September 2020

M	1	7	14	21	28
T	2	8	15	22	29
W	3	9	16	23	30
T	4	10	17	24	
F	5	11	18	25	
S	6	12	19	26	
S	13	20	27		

October 2020

M	5	12	19	26
T	6	13	20	27
W	7	14	21	28
T	8	15	22	29
F	9	16	23	30
S	10	17	24	31
S	11	18	25	

204/162 Wednesday 22

8.00 am (a) NFA

b

DFA

part (A)

8.30 States

a

b

9.00  $Z_1 \{1, 3\}$

+  $Z_2 \{1\}$

9.30  $Z_3 \{2\}$

$Z_4 \{2, 3\}$

10.00  $Z_5 \{3\}$

+  $Z_6 \{2, 3, 1\}$

10.30  $Z_7 \{3, 2\}$

+  $Z_8 \{1, 2, 3\}$

11.00

$Z_2 \{1\}$

$Z_2 \{1\}$

$Z_4 \{2, 3\}$

$Z_6 \{2, 3, 1\}$

$Z_2 \{1\}$

$Z_6 \{2, 3, 1\}$

$Z_8 \{1, 2, 3\}$

$Z_8 \{1, 2, 3\}$

$Z_3 \{2\}$

$Z_3 \{2\}$

$Z_5 \{3\}$

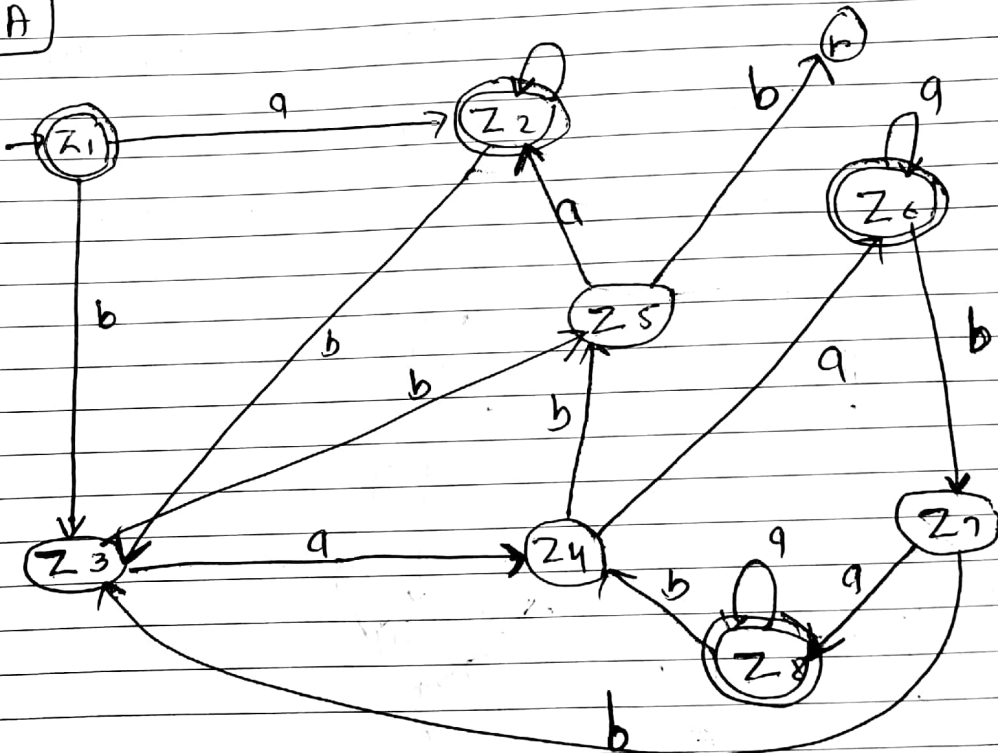
$Z_5 \{3\}$

$Z_7 \{3, 2\}$

$Z_3 \{3\}$

$Z_4 \{2, 3\}$

DFA





# July

WEEK 30

May 2020

M	4	11	18	25
T	5	12	19	26
W	6	13	20	27
T	7	14	21	28
F	1	8	15	22
S	2	9	16	23
S	3	10	17	24

June 2020

M	1	8	15	22	29
T	2	9	16	23	30
W	3	10	17	24	
T	4	11	18	25	
F	5	12	19	26	
S	6	13	20	27	
S	7	14	21	28	

July 2020

M	6	13	20	27
T	7	14	21	28
W	1	8	15	22
T	2	9	16	23
F	3	10	17	24
S	4	11	18	25
S	5	12	19	26

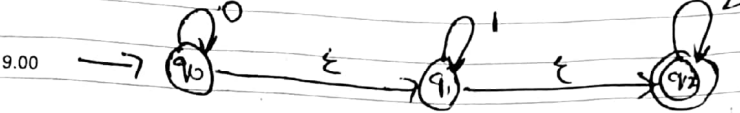
## 23 Thursday 205/161

Tokyo Olympics (JP)

8.00 am

NFA into DFA

8.30



9.00

9.30

States

10.00

~~States~~

10.30

States

11.00

$Z_1 = \{q_0, q_1, q_2\}$

$Z_2 = \{q_0\}$

$Z_3 = \{q_1\}$

$Z_4 = \{q_2\}$

11.30

$Z_2 = \{q_0\}$

$Z_2 = \{q_0\}$

$Z_3 = \{q_1\}$

$Z_4 = \{q_2\}$

Noon

$Z_3 = \{q_1\}$

$\{ - \}$

$Z_3 = \{q_1\}$

$Z_4 = \{q_2\}$

12.30

$+ Z_4 = \{q_2\}$

$Z_4 = \{q_2\}$

1.00

1.30

2.00

2.30

3.00

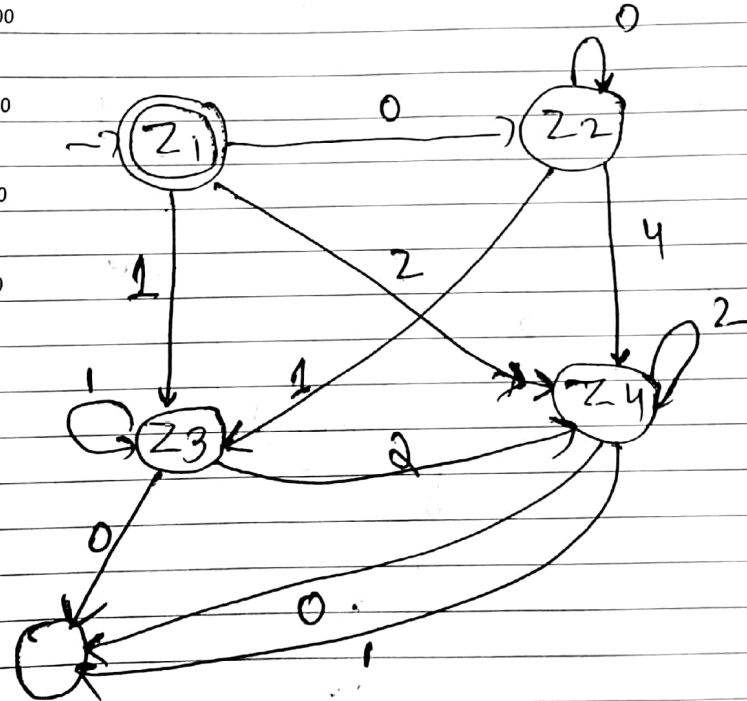
3.30

4.00

4.30

5.00

6.00 pm



6.00 pm