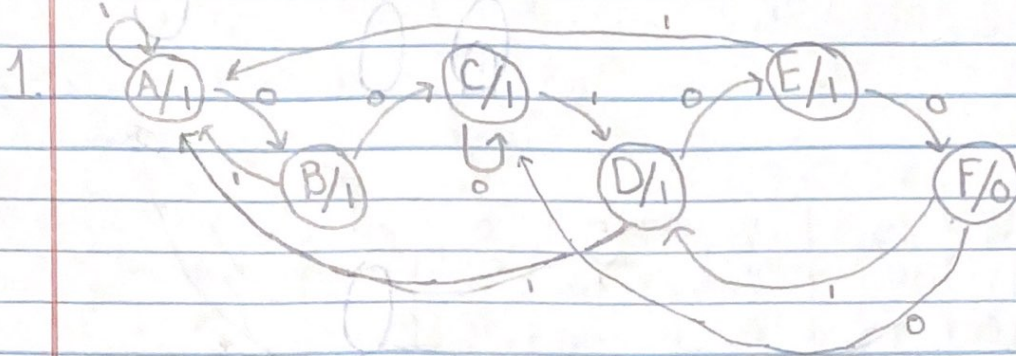


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11/3/2021

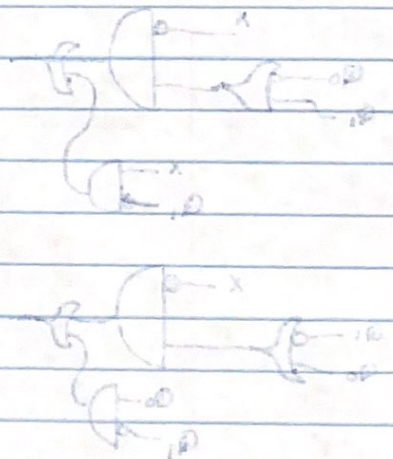
Hw 24



Moore Diagram (00100)

	A	B	C	D	E	F
waiting	...0	..00	..001	..0010	..00100	..001000
	00 →	001 →	0010 →	00100 →	0010010	
	01	000	0011	00101	0010011	

	inputs		outputs
	0	1	
A	B	A	1
B	C	A	1
C	C	D	1
D	E	A	1
E	F	A	1
F	C	D	0



2.

	0	1
A	0/0	1/1
B	1/0	0/1
C	1/1	0/1
D	1/0	0/1

↓

	0	1
00	10/0	01/1
01	00/0	01/1
11	11/1	10/1
10	11/0	10/1

V-map

	0	1	D_1
00	1	0	00
01	0	0	01
11	1	1	11
10	1	1	10

Left

Right

	0	1
00	0	1
01	0	1
11	1	1
10	0	1

Outputs

$$D_1 = \bar{x} \bar{Q}_0 + \bar{x} Q_1 + x Q_1$$

$$= \bar{x} (\bar{Q}_0 + Q_1) + x Q_1$$

$$Z = Q_1 Q_0 + x \bar{Q}_1 + x Q_1$$

$$= Q_1 Q_0 + x$$

$$D_0 = \bar{x} \bar{Q}_1 + \bar{x} Q_0 + \bar{Q}_1 Q_0$$

$$= \bar{x} (\bar{Q}_1 + Q_0) + \bar{Q}_1 Q_0$$

