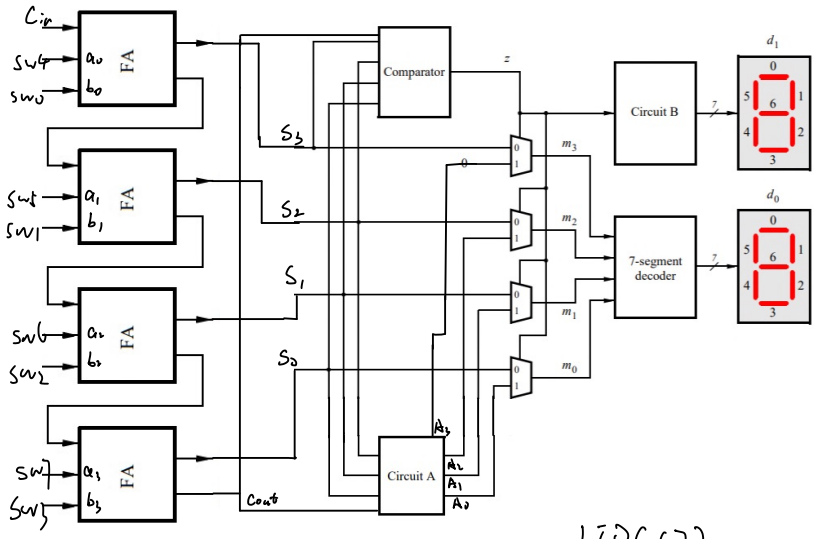
4)



LEDG(7)

>9 → "10" "11" "12" "13" "14" "15"

	b_0	S_3	S_2	S_1	S_0	M_3	M_2	M_1	M_0
0	0	0	0	0	0				
1	0	0	0	0	1				
2	0	0	0	1	0				
3	0	0	0	1	1				
4	0	0	1	0	0				
5	0	0	1	0	1				
6	0	0	1	1	0				
7	0	0	1	1	1				
8	0	1	0	0	0				
9	0	1	0	0	1				
10	0	1	0	1	0	0	0	0	0
11	0	1	0	1	1	0	0	0	1
12	0	1	1	0	0	0	0	1	0
13	0	1	1	0	1	0	0	1	1
14	0	1	1	1	0	0	1	0	0
15	0	1	1	1	1	0	1	0	1
16	1	0	0	0	0	0	1	1	0
17	1	0	0	0	1	0	1	1	1
18	1	0	0	1	0	1	0	0	0
19	1	0	0	1	1	1	0	0	1

a_3a_2 \ b_3b_2	00	01	11	10
00				
01				
11	1	1	1	1
10			1	1

$LEDG(7) = a_3(a_2+a_1) + b_3(b_2+b_1)$

same as lab II

$Z = V_3(V_1+V_2)$

but in lab IV need to add cout

$Z = V_3(V_1+V_2) + C_{out}$

$A_0 = S_0$

$A_1 = \bar{S}_1$

$A_2 = S_2S_1 + C_{out}\bar{S}_1$

$A_3 = C_{out} \cdot S_1$