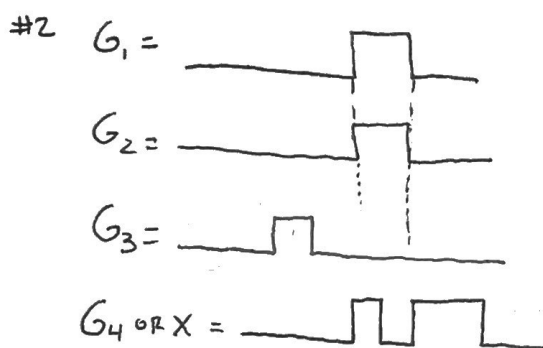
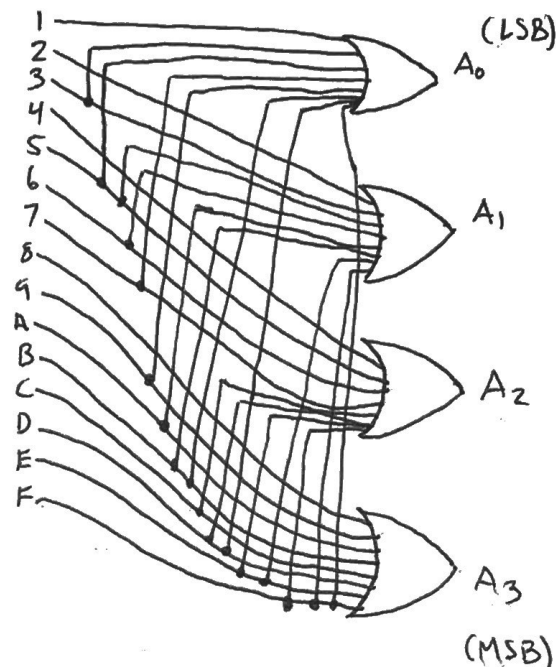


DEC/HEX	BINARY
0	0000
1	0001
2	0010
3	0011
4	0100
5	0101
6	0110
7	0111
8	1000
9	1001
A	1010
B	1011
C	1100
D	1101
E	1110
F	1111

MSB → LSB



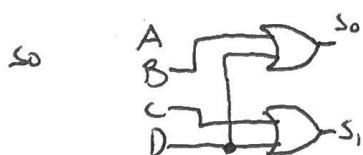
SO G_1 OR G_2 IS FAULTY SINCE G_3 IS THE SAME AS THE OUTPUT (OUTPUT OPEN FAILURE).

#1 ASSUME A, B, C, D ARE BUTTONS WHERE A TURNS ON THE FIRST FEED, B TURNS ON SECOND FEED, C TURNS ON THIRD FEED, AND D TURNS ON FOURTH FEED.

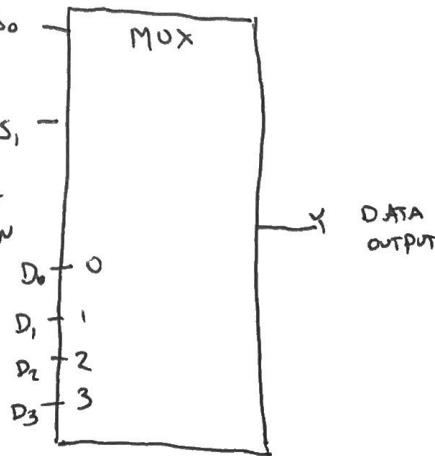
SO

INPUT	OUTPUT
A	00
B	01
C	10
D	11

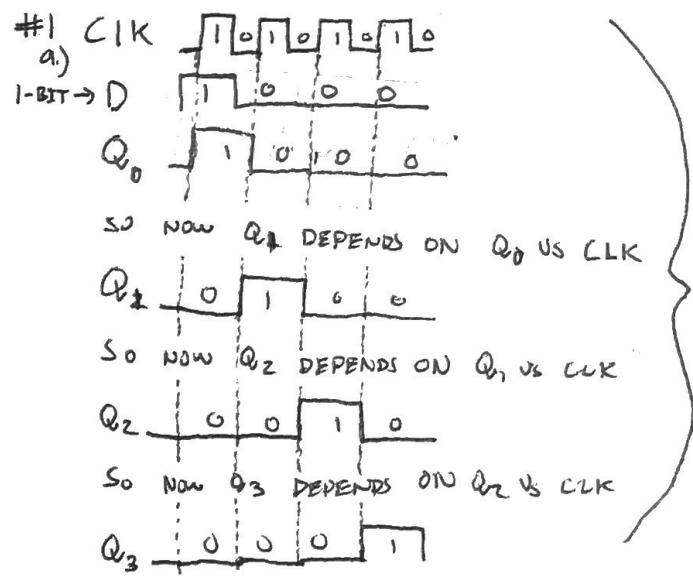
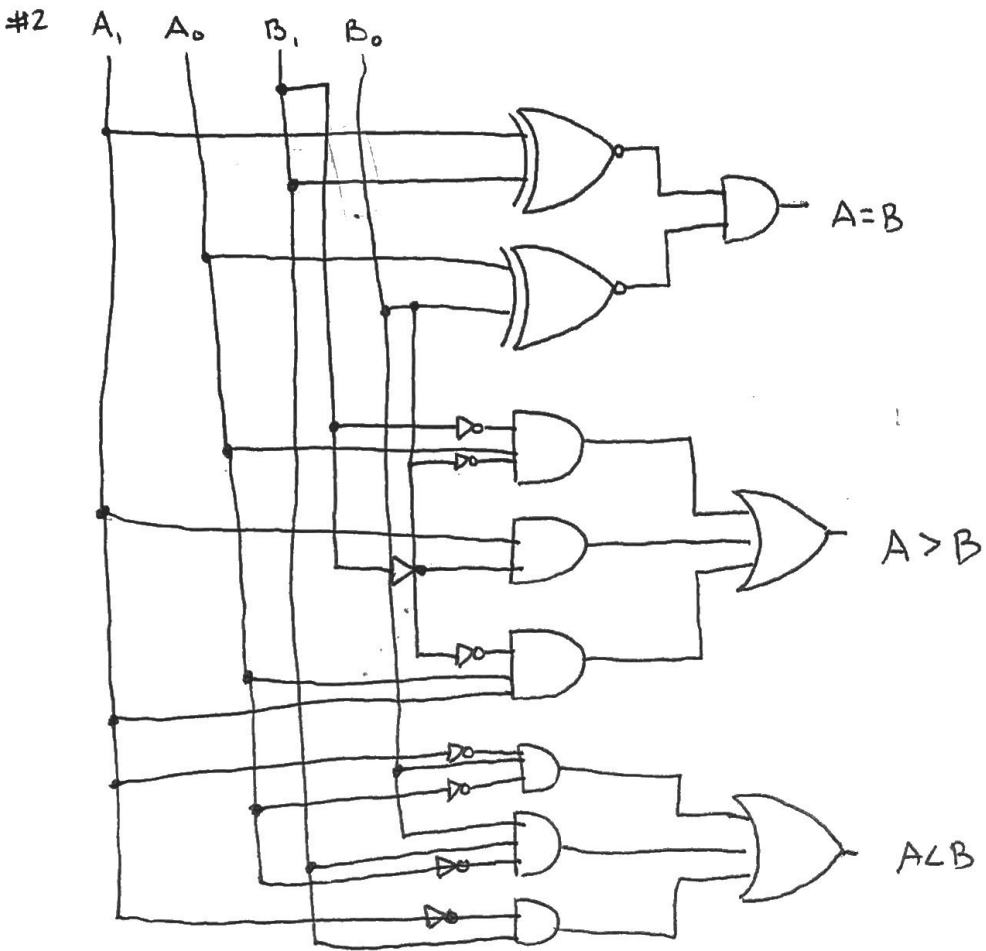
$S_1 \rightarrow S_0$



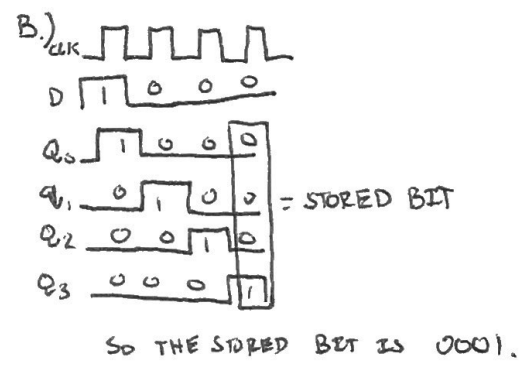
NOTE: A DOES NOT CONNECT TO ANY NODE SO WHEN A IS PRESSED, THE OUTPUT INPUT IS "00".



DATA SELECTED	INPUT	INPUT SELECTED
S_1	S_0	
0	0	D_0
0	1	D_1
1	0	D_2
1	1	D_3



TIMING DIAGRAM.



THE INPUT CAN BE A TIMER ATTACHED TO Q₀, Q₁, Q₂, Q₃ TO OBTAIN THE LSB OF EACH PULSE AND OBTAIN OUR STORED BIT.

