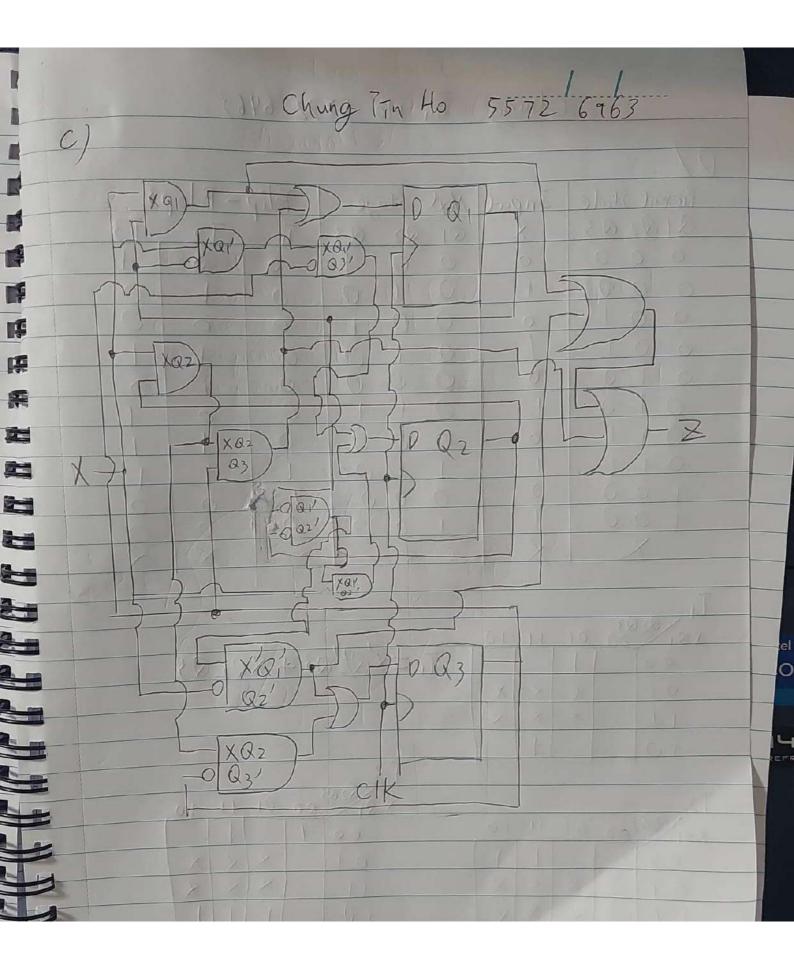
Thung In Ho 55726963 Assignment 3 A: Input to 0' B: 7wo 'O' is detected (OO) and out
C: One 'I' is detected
D: sequence 'II' is detected
E: sequence 'II' is detected

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Present State Input	Next State	tresent
(Q1 Q2 Q3) X	Q1* Q2* Q3*	Output 2
A(000)	0 0 0 1	
A (10/0/0)	,0,0,0,0	0
13 (0 0 1) 0 13	00000	D. I
6(001)	51 3 (m) (0)	100
0(0(0))	0 0 0	0
D(0 (10)	0 1 1	0
0011	0 0 0	0
F(10070	0 0 0	
F (100)	000	
o-eher	XXXX	The state of the s
		1761
c) Q1*		
XQ1 02 00 11 10 XQ1 Q2Q3 01 11 10		
00000	00 000	000
0 (O X X X		X X
	11122	X X
		0 1
DI=QIX = XQI+XQ2Q3 D2=Q2X=XQ1'Q2'+XQ1'Q3'		
Q3*	7 1 1 1 1 1	V
XQ1 @ 030 0 (11 10	X Q Q2 Q3	
0000	10000	(1) (1)
01 0 X X X	0 1 0 X	0 0 X X
110 XXX		XX
(0) 0 9 0 1	10000	
03=Q3*=XQ'Q2'+XQ2Q3'	z= xQ1 + x'q1'q	1'+ XQ2 Q3
	- 14 1 4 4	LTIGLAS



Chung Fr Ho 5572 6963 Flip-Flops Present State Next Stage Input 0/0203 Q2 Q3 00 0 0 0 02 03 01 T, = XQ2Q3 + XQ2Q3 X 3 0203 T2 Q2Q300 00 01 (0 00 00 0 1 X X X T3=XQ1Q2Q3+Q2Q3 2= XQ1'Q2'+Q2Q3+X'Q2