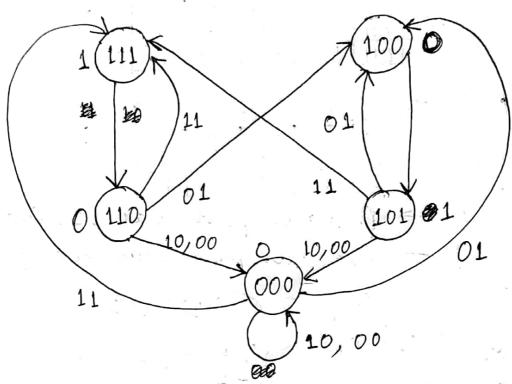
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Part 1

Part 1

Group 24

The FSM of Manchester encoding in an follows. This is a moore ofthert on the output depends only on present state.



The state 000 represents the state when valid = 0;
The input in 2 bit = D, V (in this order)
The upper states supresent start of clock
The upper states supresent states the second
cycles and the lower states, the second
half of clock cycle. The output infor
half of clock cycle. The output infor
each state is written beside the state. It
each state is written beside the state. It

Output (for stater)

100 > 0, 101 > 1, 111 -> 1, 110 -> 0

The sight states are used when data in 1

and the right states when data in 0.

Part 2

Input (FSM) = 3-bit -> H, V, T Output (FSM) = 3-bit -> PH, PV, ST

		Dutput table								
	000	001	110	010	110	(11	101	100		
0	000	000	101	011	011	101	101	101		
	000	000	011	011	101	011	011	101		

		8	Transition table							
1		000	001	011	010	110	111	101	100	
1	0	0	0	O	0	X	0	D	1	
1	1				0	0	1	1	1.	

Stater > 0 -> Previous pars was vertical

1 -> Previous pars was horizontal

$$000/010$$
 $000/010$
 $000/010$
 $000/101$
 $000/101$
 $000/100$
 $010/011$
 $000/100$
 $010/011$
 $000/100$