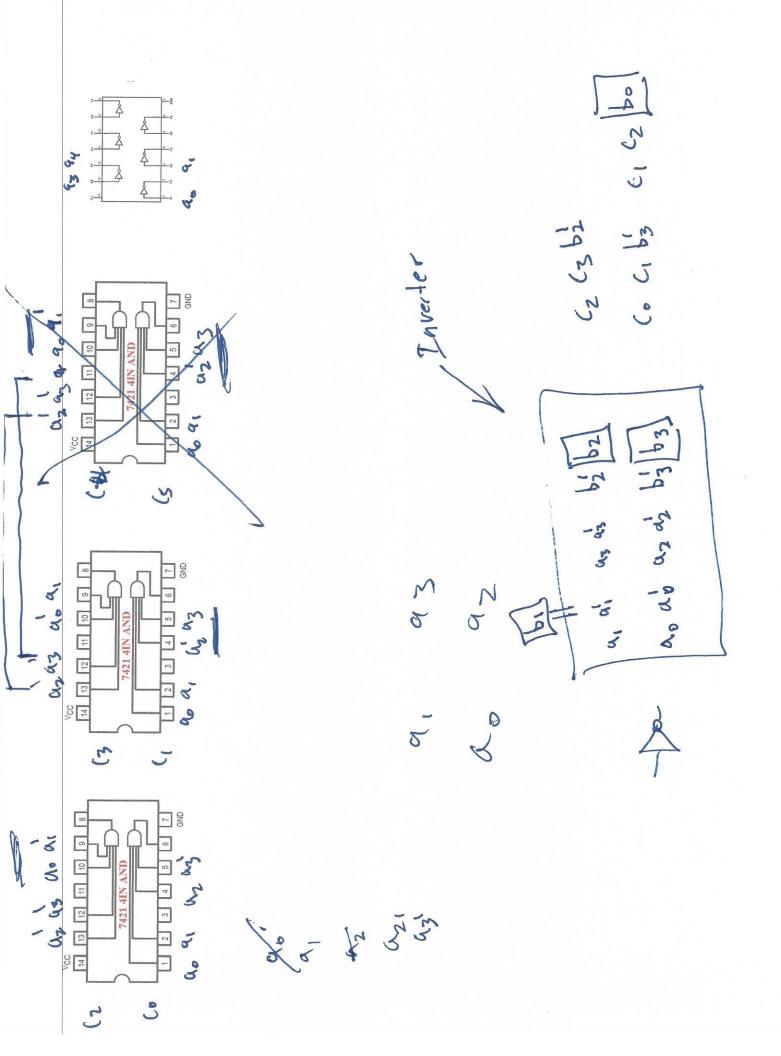


a3	a2	a1	a0	b3	b2	b1	b0	
11	10	<u>01N</u>	<u>00N</u>	RN	WN	3DIR	3SN	
0	0	0	0	1	1	-	0	MDR TO BUS
0	0	0	1	1	0	1	1	R1 TO MEM
0	0	1	0	1	0	_	0	RO TO MEM
0	0	1	1	1	1	**	0	DEFAULT (off)
0	1	0	0	1	1	-	0	(0.1.)
0	1	0	1	1	1	-	0	
0	1	1	0	1	1	_	0	
0	1	1	1	0	1	-	0	MEM TO RO
1	0	0	0	1	1	-	0	
1	0	0	1 '	1	1	-	0	
1	0	1	0	1	1	1	0	
1	0	1	1	0	1	0	1	MEM TO R1
1	1	0	0	1	1	_	0	
1	1	0	1	1	1	_	0	
1	1	1	0	1	1	-	0	
1	1	1	1	1	1	-	0	BUS TO MDR
0001 0010 0011 0100 0111 0110 1001 1101 1101 1101 1101 1101 1110 11	110 11-0 01 1011 00010-0 10011-0 10011-0 10011-0 10011-0 10011-0 101011 11011-0 10011-0 10011-0	00 00 00 00 00 00 00 00 00 00 00 00 00	010	230	0110			

00 1



$$b3 = (c2)'(c4)'(c7)'$$
3 nand, 1 four and
$$b2 = (c0)'(c3)' (c5)'$$
3 nand, 1 four and
$$b1 = (a1')$$

$$b0 = (a0) (a2') (c1)' (c6)'$$

$$2 nand, 1 four and$$

$$c0$$

$$a2$$

$$a3'$$

$$a$$

