COMPOSITION BOOK

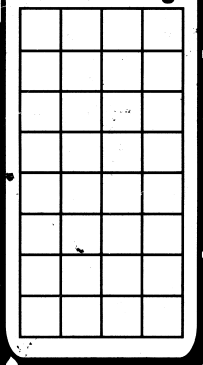
Bruce's I/O

Tester Board,

Quad Rule
100 Sheets • 200 pages
9.75 in x 7.5 in/24.7 cm x 19.0 cm

TOP|FLIGHT

4"
Quad Ruling



BRUCE'S I / O Tester

BOARD

Days

Days

Days

Days

I/O BOARD

A	01		Gnd
	2		Gnd
	3		+5
	4		+5
	5		
	6		-5
	7		
	8		
	9		
	10		+V INH
	11		
	12		
	13		
	14		
	15		
	16		
	17		
	18		
	19		
	20		
	21		
	22		
	23		
	24		
	25		
	26		
	27		
	28		
	29		
	30		
	31		
	32		

	A					A
		33				
		34	Gnd			X
		35				
		36				X
		37				
X		38	$\overline{MSKØ}$	E24.9		X
		39				
X		40	INTA	E38.13		X
		41				
X		42	DATIB	E5.3		
		43				
X		44	DATIA	E5.5		
		45				
X		46	$\overline{DS3}$	E7.1		X
		47				
X		48	DATOC	E5.1		X
		49				
X		50	CLR	E5.13		
		51				
X		52	STRT	E5.11		
		53				
X		54	DATIC	E5.9		
		55				
X		56	DATOB	E6.5		
		57				
X		58	DATOA	E6.3		
		59				X
X		60	$\overline{DCHA}$	E24.11		X
		61				X
X		62	$\overline{DS4}$	E7.2		X
		63				
X		64	$\overline{DS5}$	E7.4		
		65				
X		66	$\overline{DS2}$	E7.3		

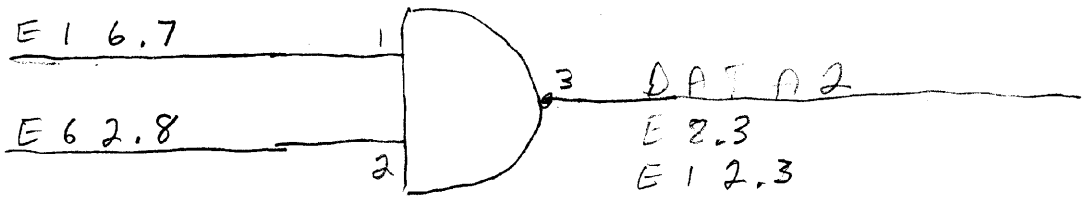
	A	67		
X		68	$\overline{DS1}$	E7.12
		69		
X		70	IORST	E38.11
		71		
X		72	$\overline{DS\emptyset}$	E7.11
		73		
X		74	IOPLS	E6.1
		75		
		76		
		77		
		78		
		79		
X		80	$\overline{SELD}$	E39.6
		81		
X		82	$\overline{SELB}$	E39.11
		83		
		84		
		85		
		86		
		87		
		88		
		89		
		90		
		91		
		92		
X		93	DCHP OUT	ES4.11
X		94	DCHP IN	E38.3
X		95	INTP OUT	ES4.3
X		96	INTP IN	E38.5
		97	+5	
		98	+5	
		99	Gnd	
		100	Gnd	

I/O BOARD

	B	01	Gnd	
		2	Gnd	
		3	+5	
		4	+5	
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
X		17	$\overline{\text{DCHMØ}}$	E40.11
		18		
		19		
		20		
X		21	$\overline{\text{DCHM1}}$	E40.6
		22		
		23		
		24		
		25		
		26		
		27		
		28		
X		29	$\overline{\text{INTR}}$	E54.8
		30		
		31		
		32		

X	B	33	DCHO	E6.9	
		34			
		35	$\overline{\text{DCAR}}$	E24.11	
		36			
X		37	DCHI	E6.11	
		38			
X		39	OVFLO	E6.13	X
		40			
X		41	$\overline{\text{RQENB}}$	E38.1	X
		42			
		43			
		44			
		45			
		46			
		47			
		48			X
		49			
		50			
		51			
		52			
		53			
		54			
X		55	DATA7	E2.11	
X		56	DATA14	E4.3	
X		57	DATA5	E2.6	
X		58	DATA11	E3.11	
X		59	DATA12	E4.8	
X		60	DATA8	E3.8	
X		61	DATA4	E2.8	X
X		62	DATA10	E1.8	
X		63	DATA9	E3.6	
X		64	DATA13	E4.6	
X		65	DATA1	E1.6	
X		66	DATA15	E4.11	

	B	67	
		68	
		69	
		70	
		71	
		72	
X		73	DATA3 E1,11
		74	
X		75	DATA10 E3,3
		76	
		77	
		78	
		79	
		80	
		81	-5
X		82	DATA2 E1,3
		83	
		84	
		85	
		86	
		87	
		88	
		89	
		90	
		91	
		92	
		93	
		94	
X		95	DATA6 E2,3 E9.3 E13.3
		96	
		97	+5
		98	+5
		99	Gnd
		100	Gnd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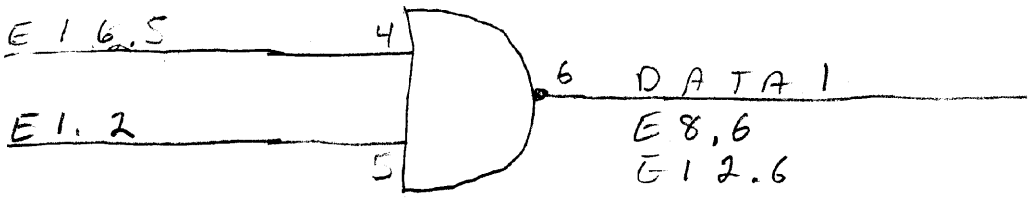
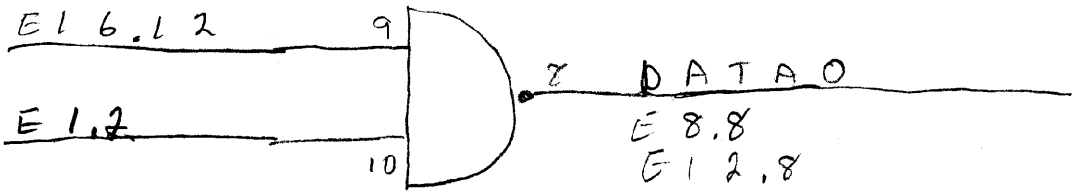
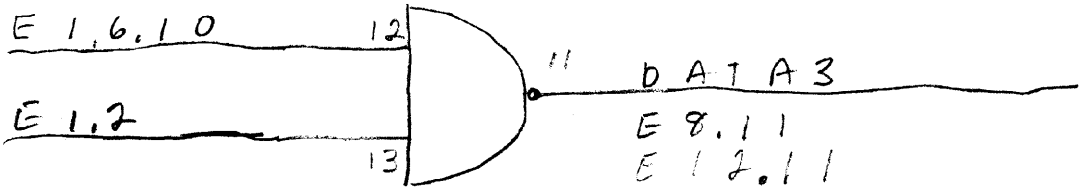
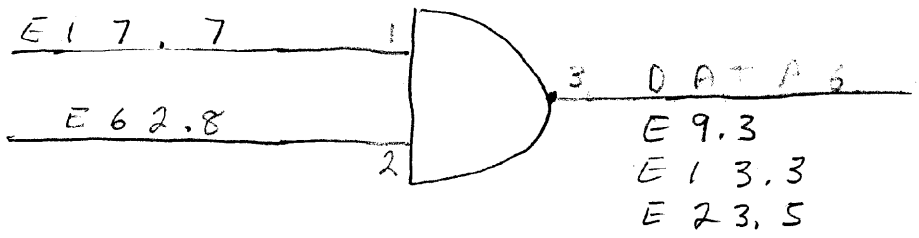
1
E6 2.8
2
3
DATA2
E8.3
E12.3

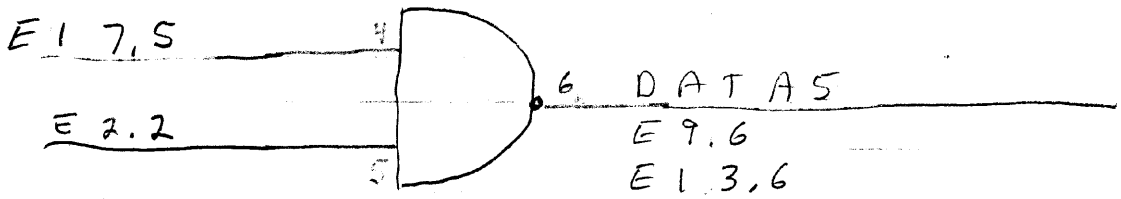

E1 6.5
4
E1.2
5
6
DATA1
E8,6
E12.6

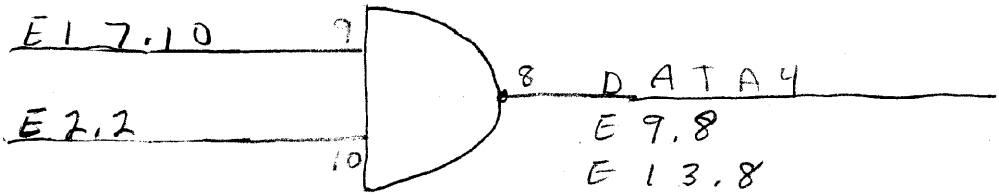

E1 6.12
9
E1.2
10
8
DATA0
E8.8
E12.8

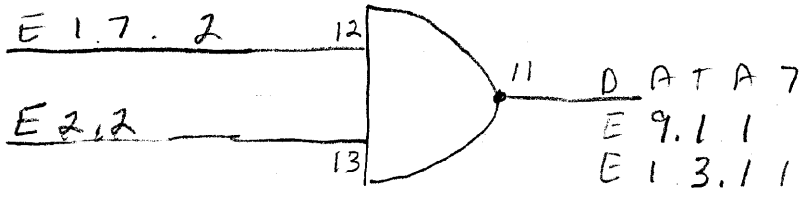

E1.6.10
12
E1.2
13
11
DATA3
E8.11
E12.11

E 2 7438 078

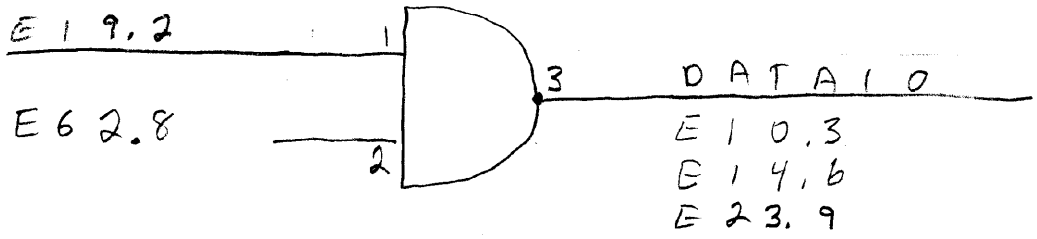

E 1 7 . 7
1
E 6 2 . 8
2
3
DATA6
E 9.3
E 1 3.3
E 2 3. 5


E 1 7.5
4
E 2.2
5
6
DATA5
E 9.6
E 1 3.6

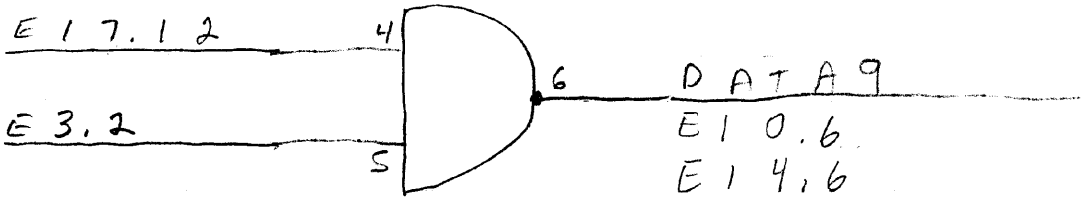

E 1 7.10
9
E 2.2
10
8
DATA4
E 9.8
E 1 3.8


E 1 7 . 2
12
E 2.2
13
11
DATA7
E 9.1 1
E 1 3.1 1
E 2 3.3

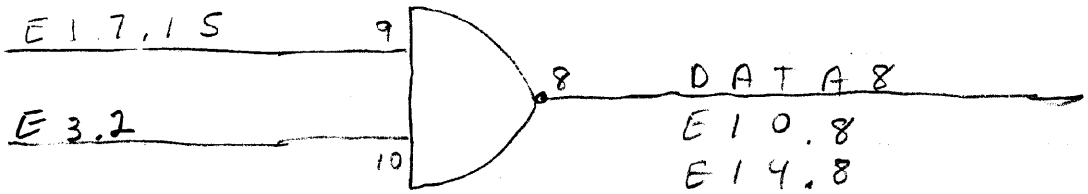
E3 7438 078 E4



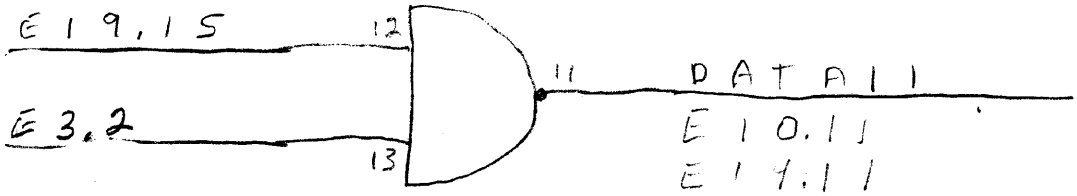
E10.3
E14.6
E23.9



E10.6
E14.6

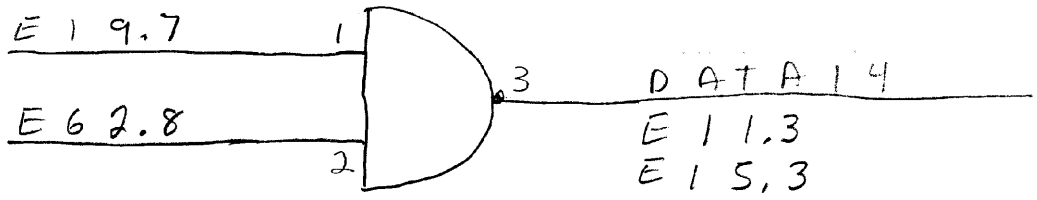


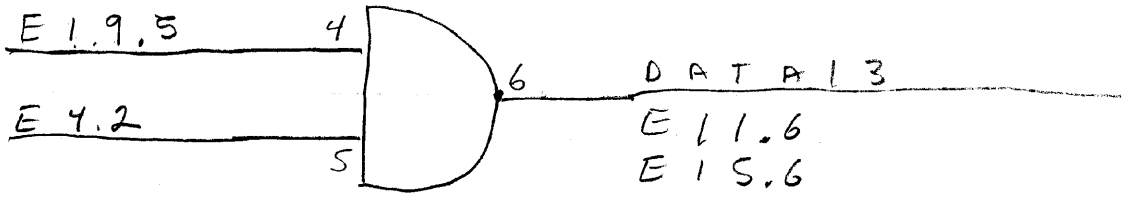
E10.8
E14.8
E23.1

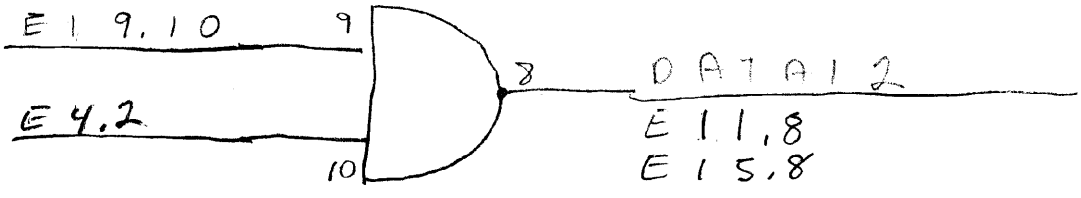


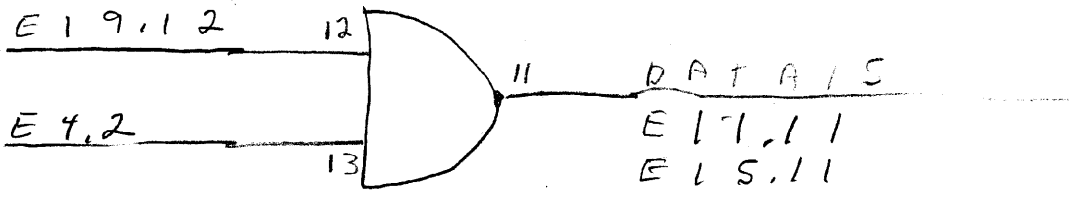
E10.11
E14.11
E23.11

E4 7438 078

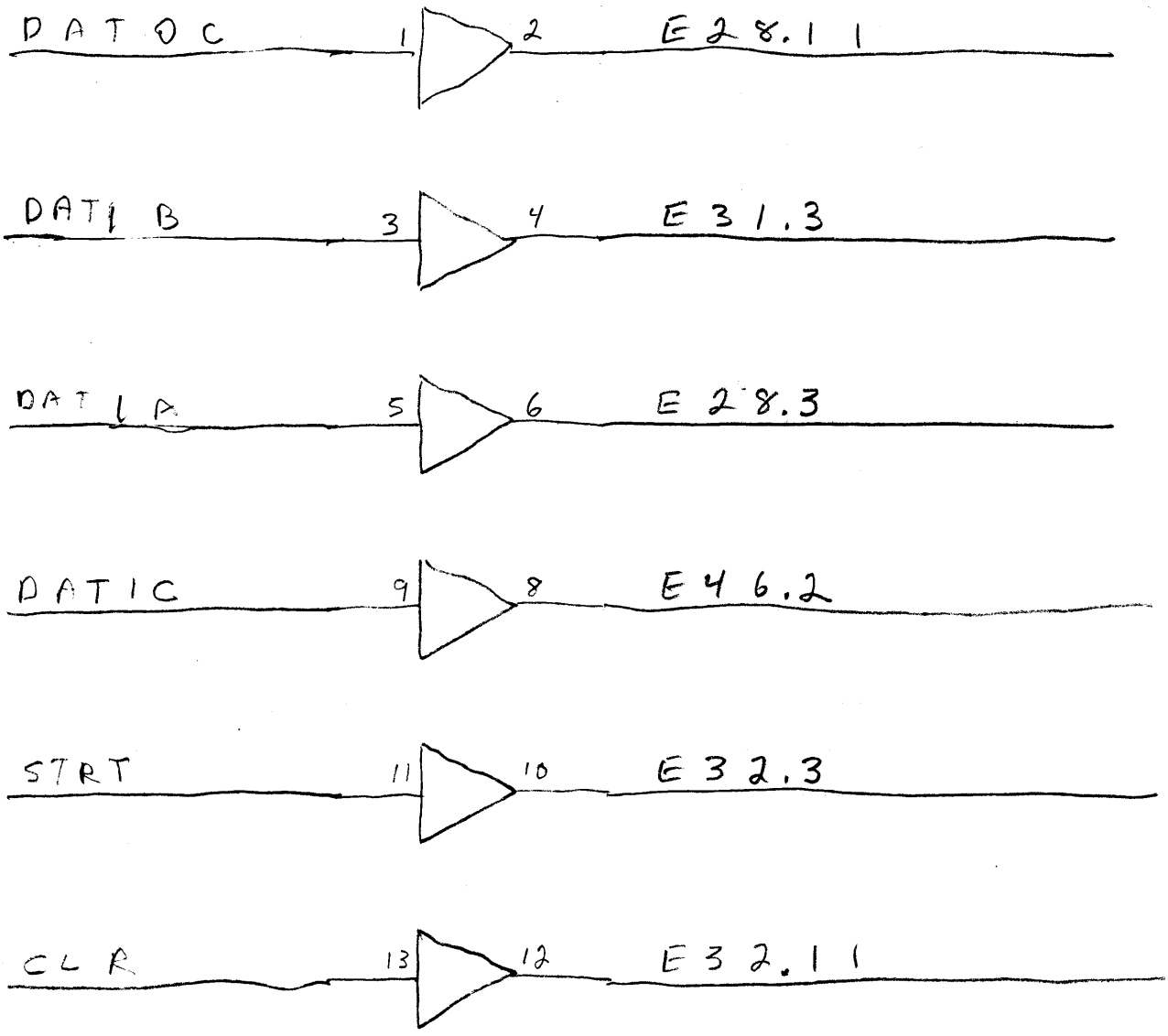

E19.7
1
E62.8
2
3
DATA14
E11.3
E15,3


E1.9.5
4
E4.2
5
6
DATA13
E11.6
E15.6

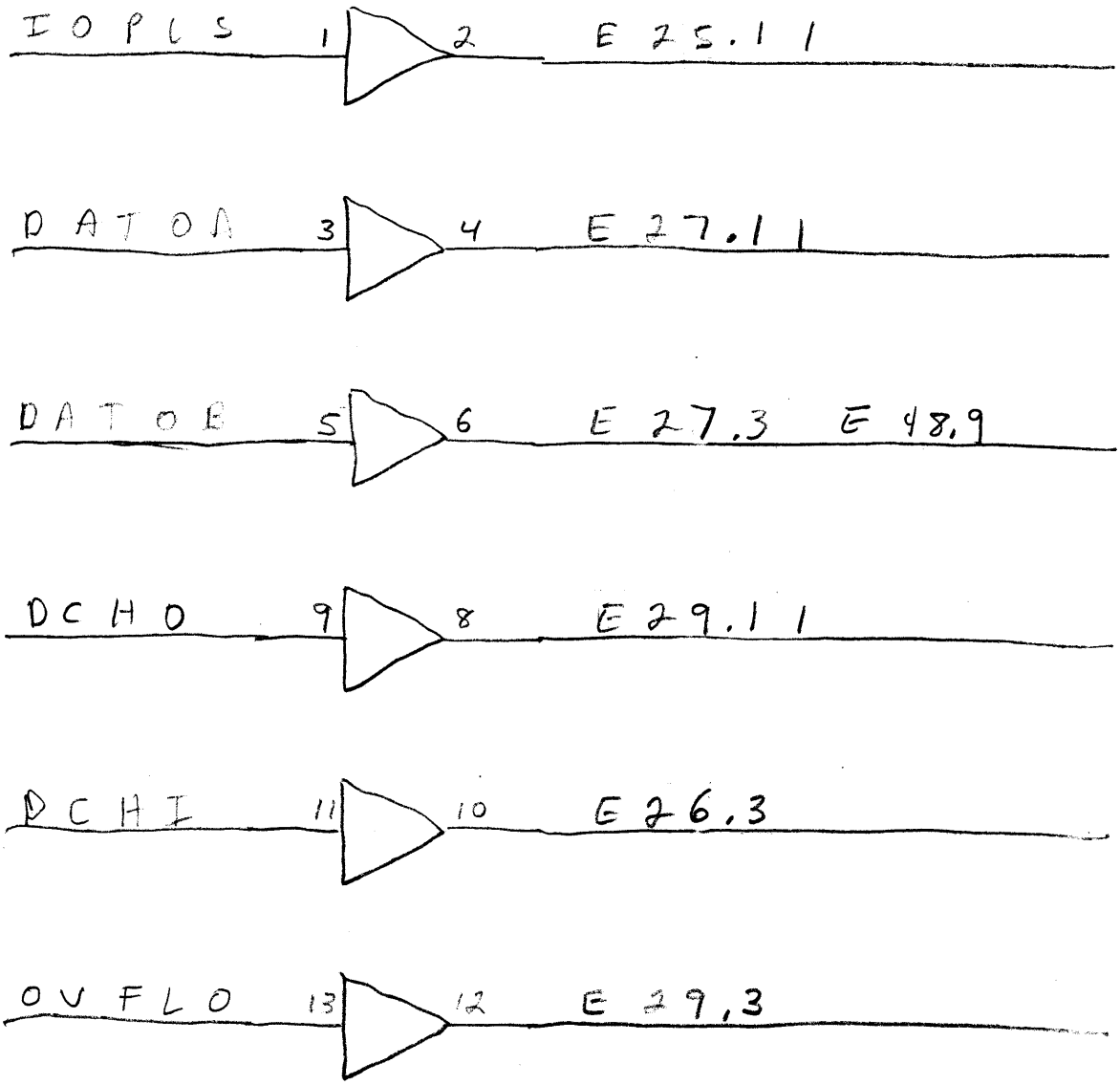

E19.10
9
E4.2
10
8
DATA12
E11,8
E15.8


E19.12
12
E4.2
13
11
DATA15
E17.11
E15.11

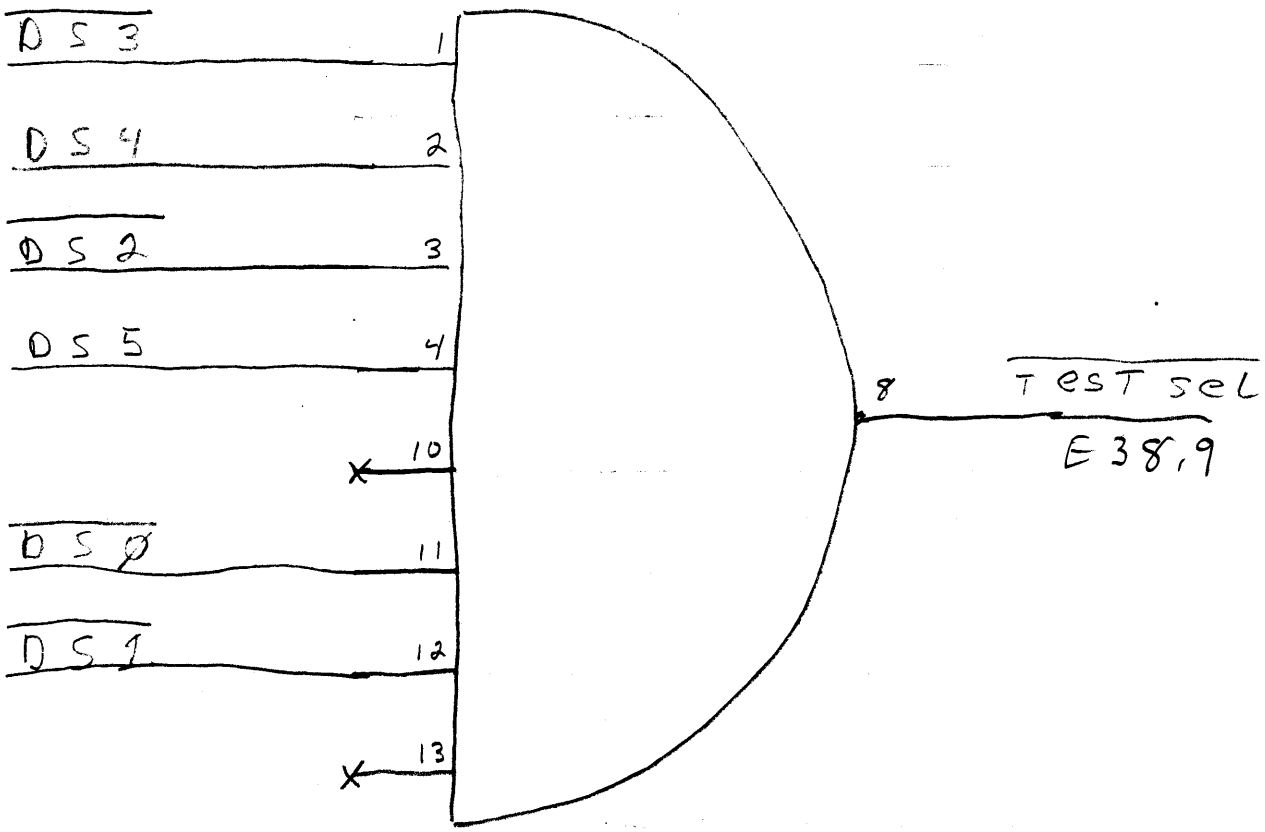
E5 7407


DATOC
1
2
E28.11
DATIB
3
4
E31.3
DATIA
5
6
E28.3
DATIC
9
8
E46.2
STRT
11
10
E32.3
CLR
13
12
E32.11

E6 7407

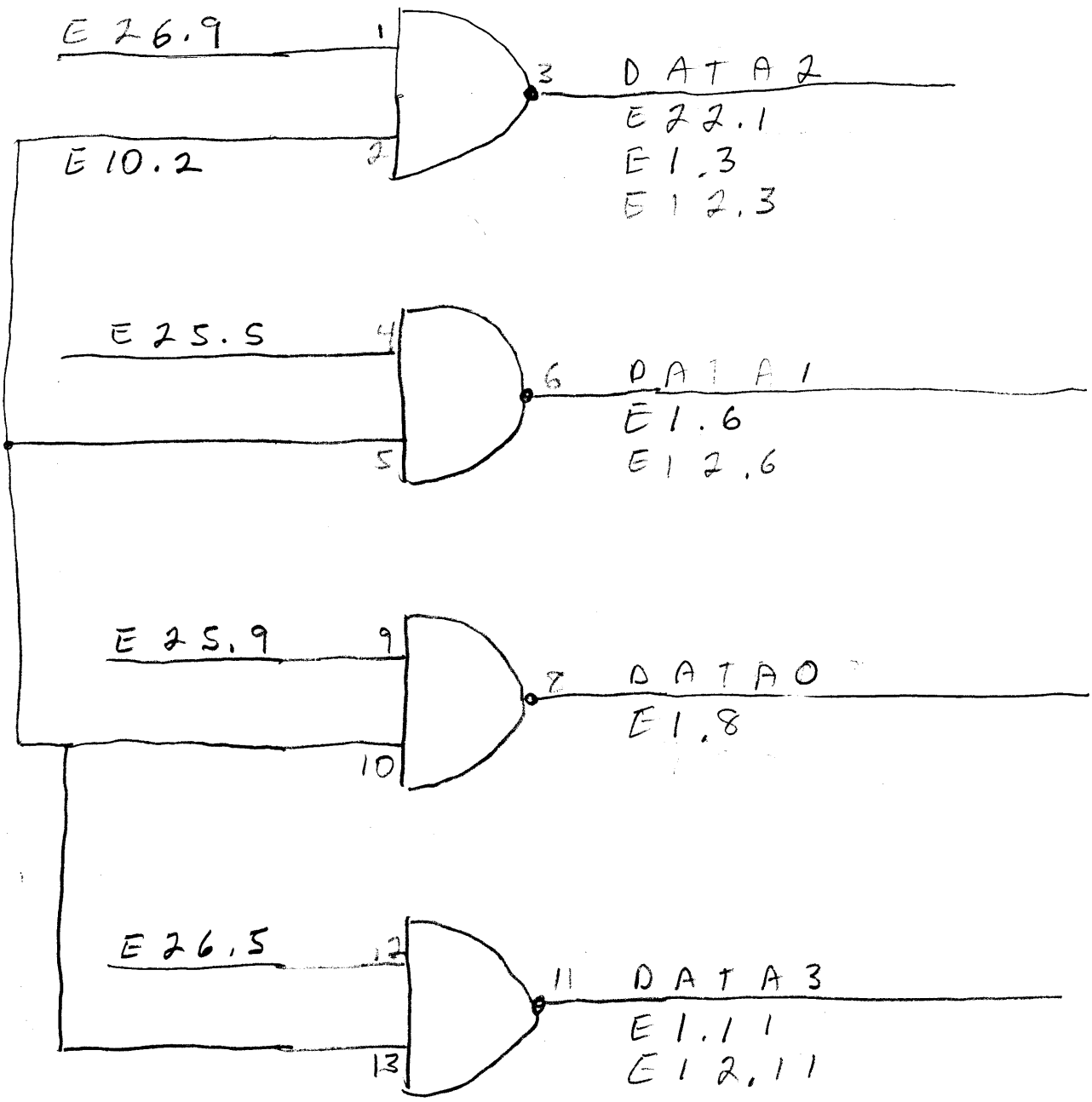

IOPLS
1
2
E25.11
DATOA
3
4
E27.11
DATOB
5
6
E27.3
E48.9
DCHO
9
8
E29.11
DCHI
11
10
E26.3
OVFLO
13
12
E29.3

E7 9007 007 7430 E8

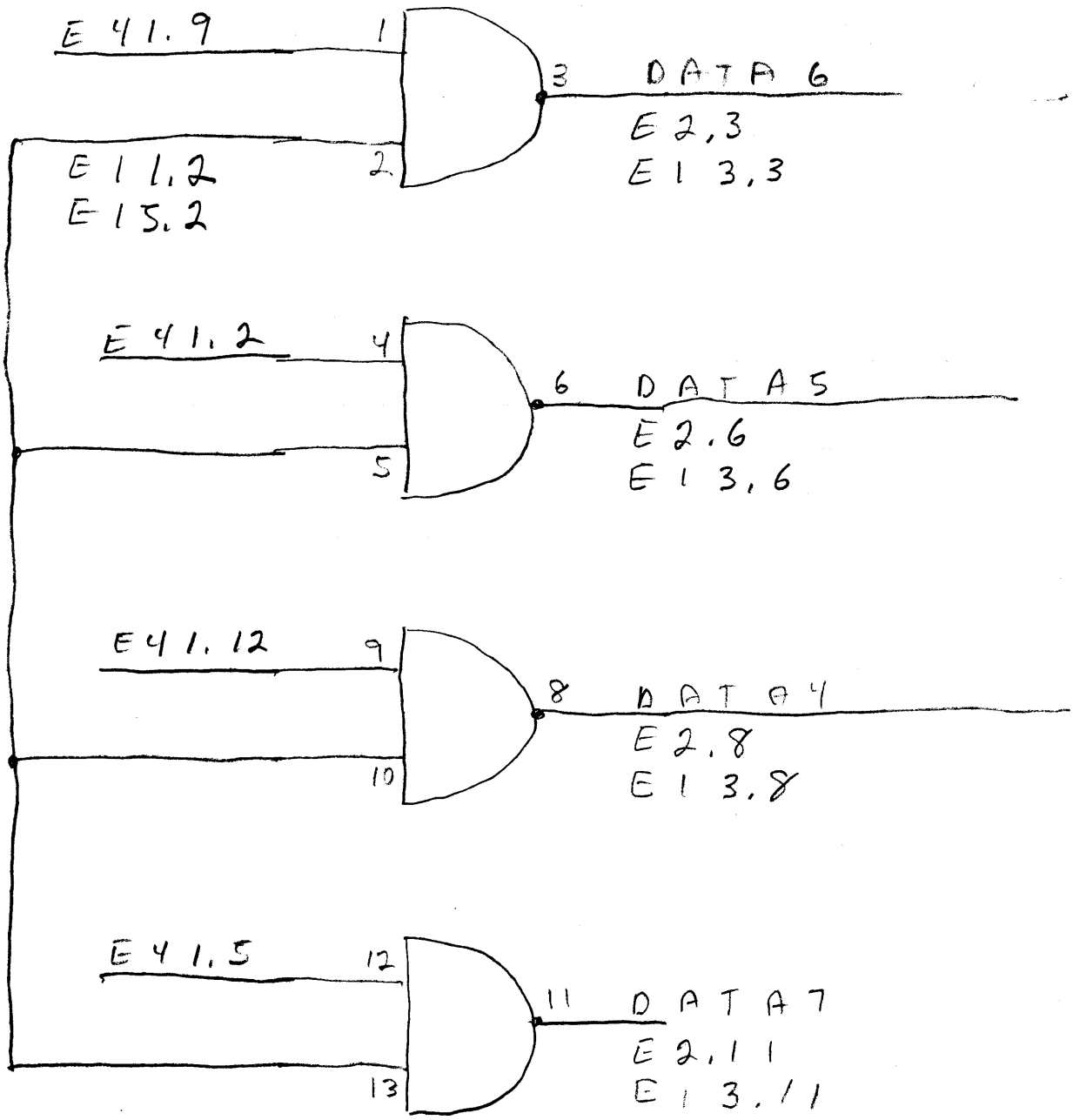


E2
E10
E
E
E

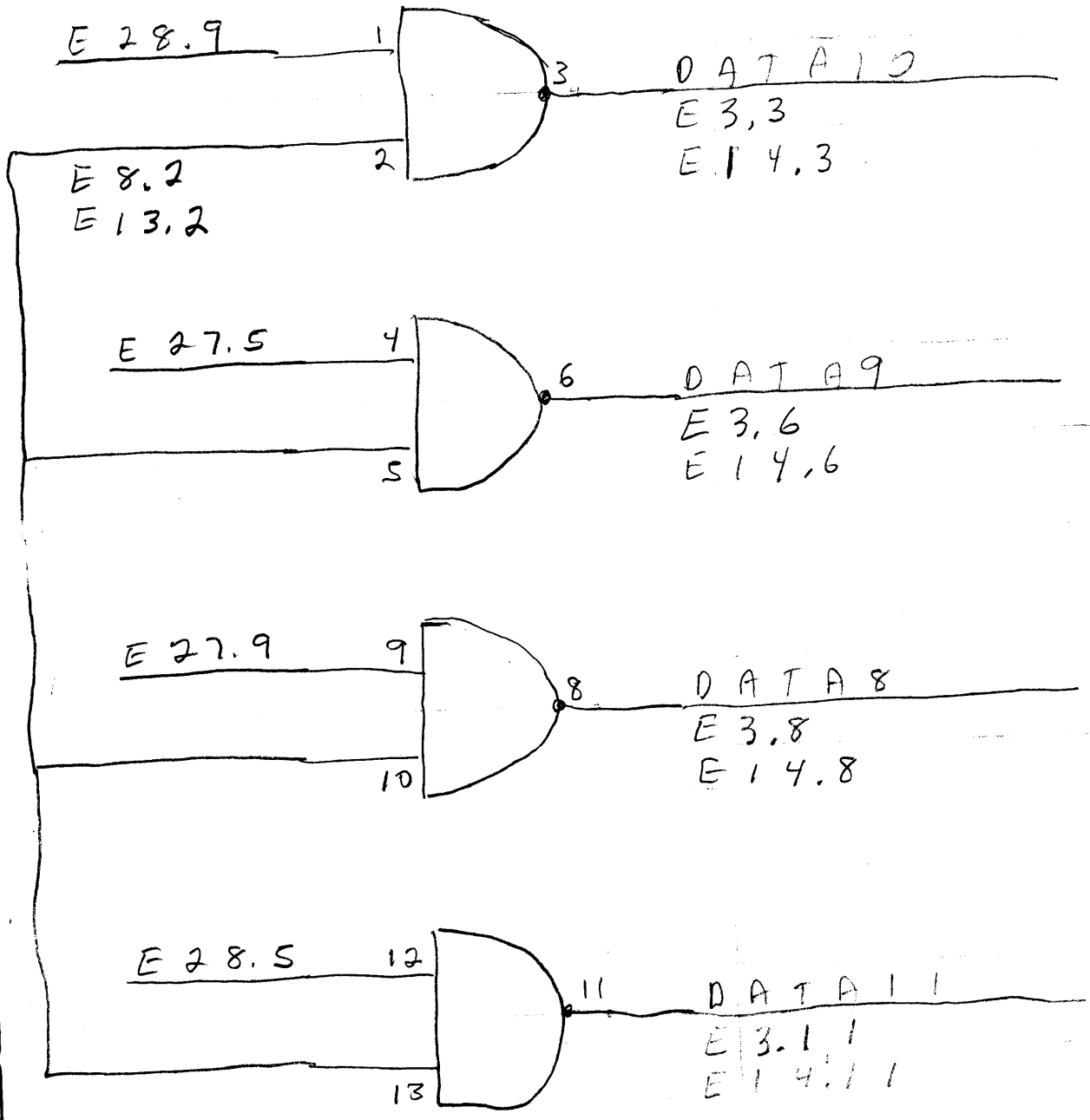
E8 7438 078


E26.9
1
E10.2
2
3
DATA2
E22.1
E1,3
E12,3
E25.5
4
5
6
DATA1
E1.6
E12.6
E25.9
9
10
8
DATA0
E1,8
E26.5
12
13
11
DATA3
E1.11
E12,11

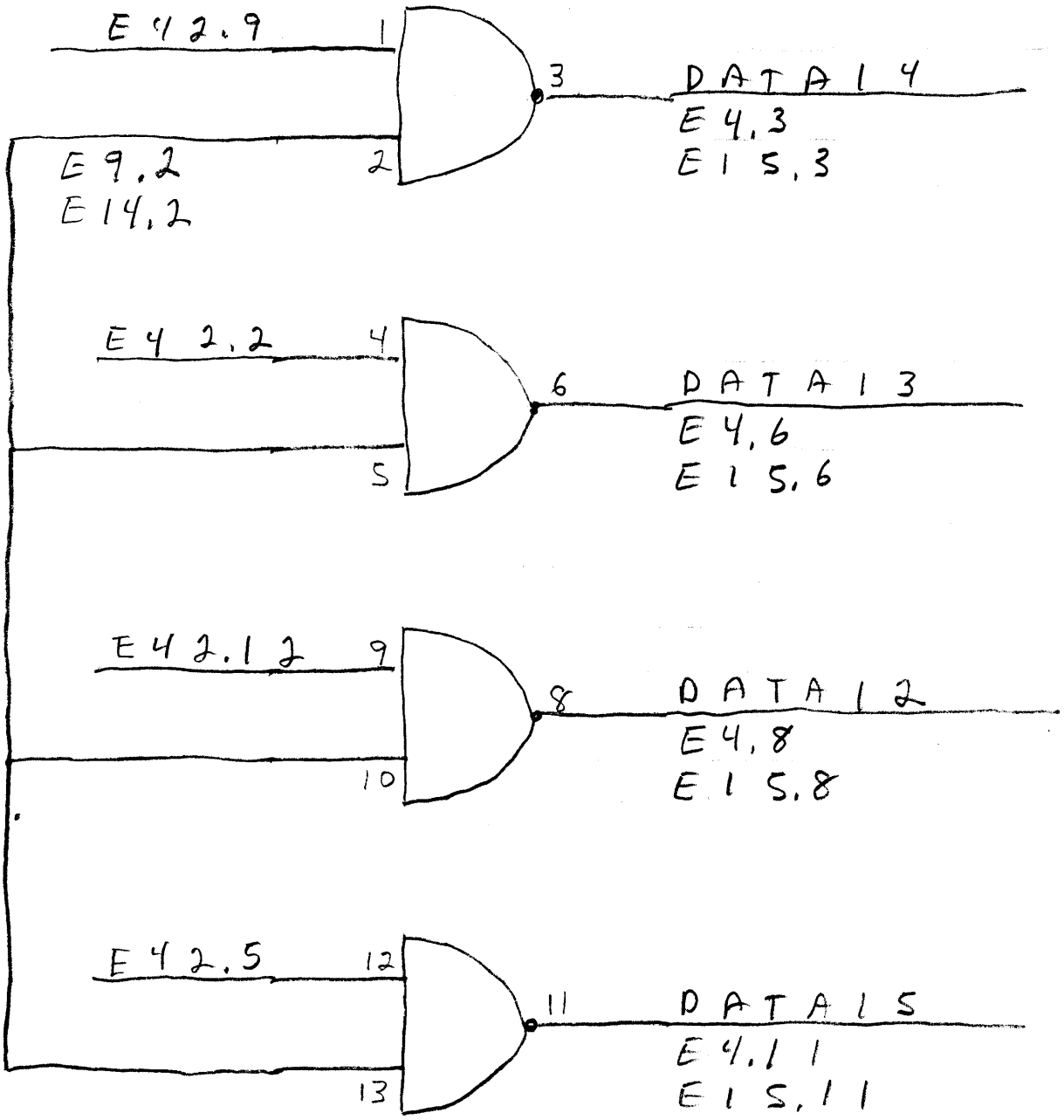
C9 7438 078


E 41.9
1
2
3
DATA 6
E 2,3
E 1 3,3
E 1 1.2
E 1 5.2
E 41.2
4
5
6
DATA 5
E 2.6
E 1 3,6
E 41.12
9
10
8
DATA 4
E 2.8
E 1 3.8
E 41.5
12
13
11
DATA 7
E 2.11
E 1 3.11

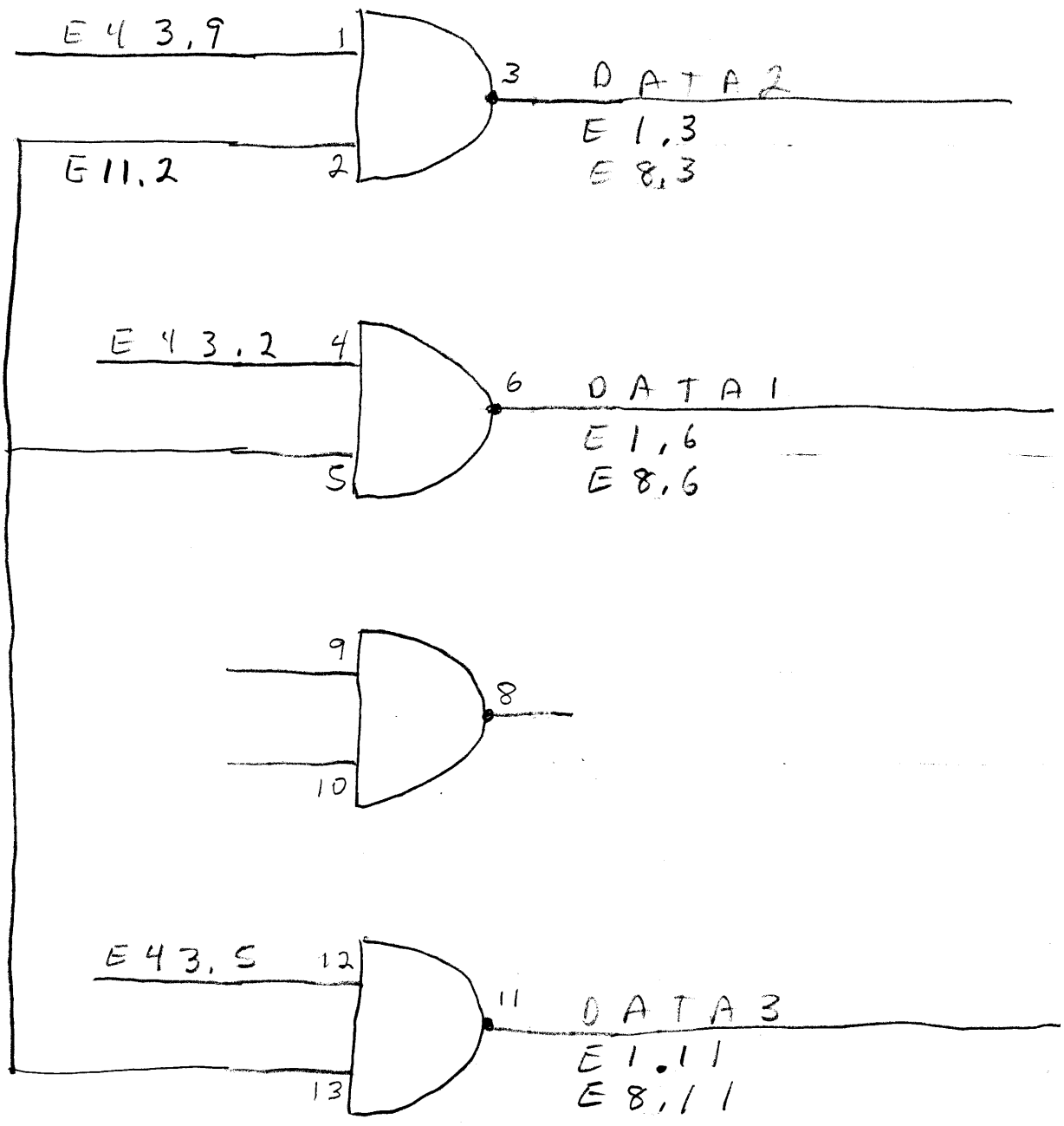
E10 7438 078


E28.9
1
2
3
DATA10
E3,3
E14,3
E8,2
E13,2
E27.5
4
5
6
DATA9
E3,6
E14,6
E27.9
9
10
8
DATA8
E3,8
E14,8
E28.5
12
13
11
DATA11
E3,11
E14,11

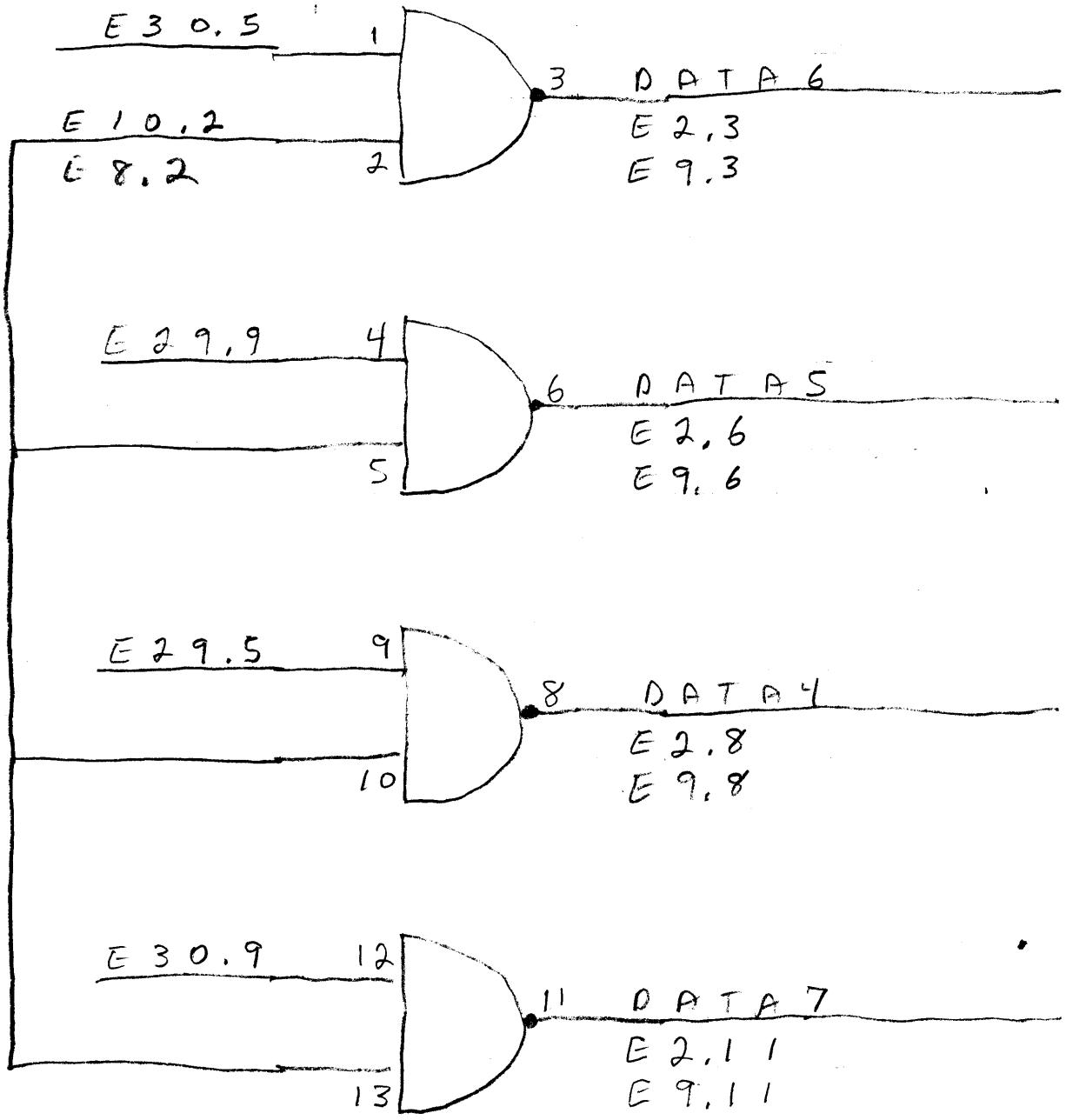
E 1 1 7438 078


E 4 2.9
1
2
3
DATA 14
E 4.3
E 1 5.3
E 9.2
E 14.2
E 4 2.2
4
5
6
DATA 13
E 4.6
E 1 5.6
E 4 2.12
9
10
8
DATA 12
E 4.8
E 1 5.8
E 4 2.5
12
13
11
DATA 15
E 4.11
E 1 5.11

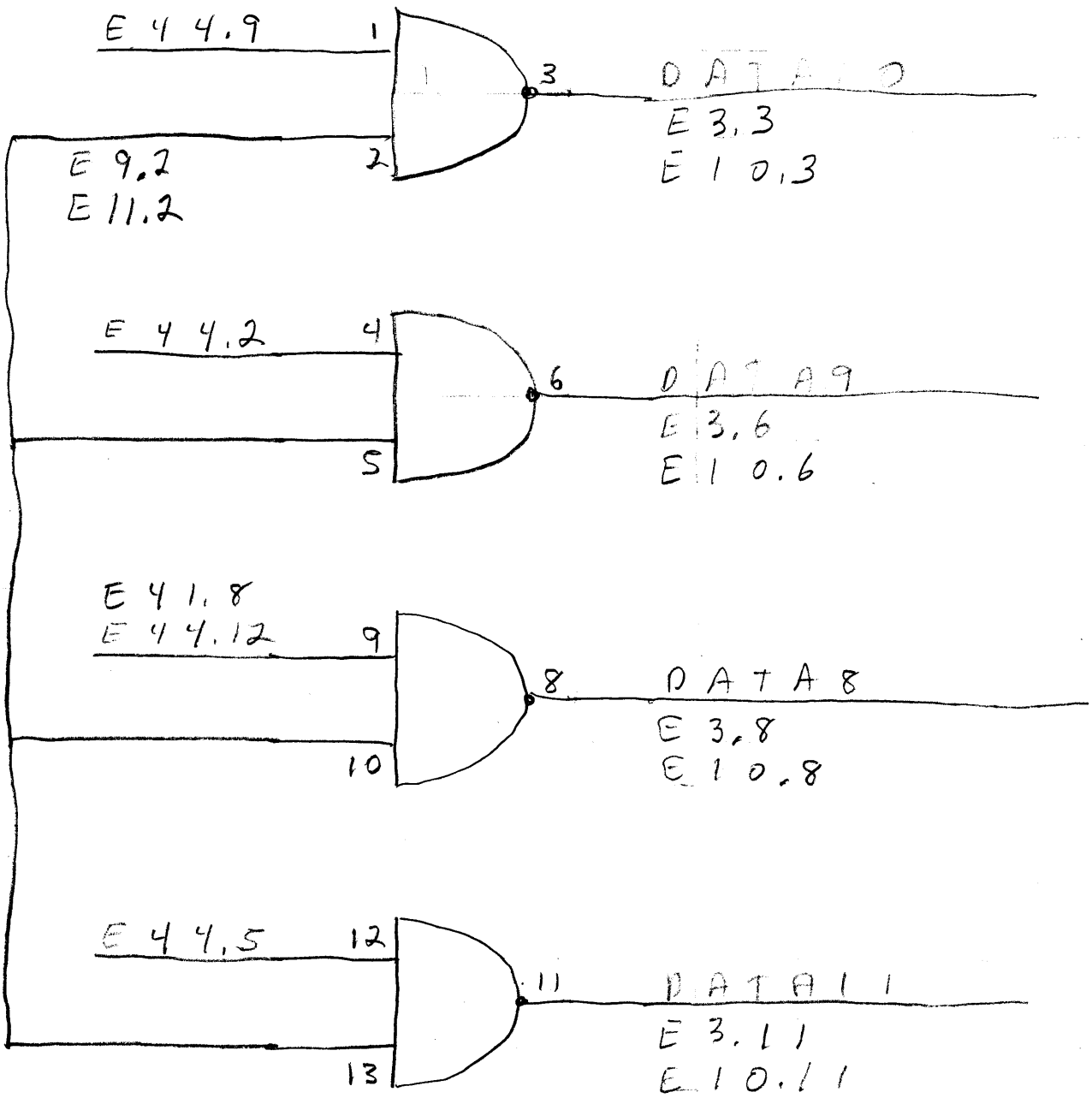
E 2 7438 078


E 4 3,9
1
E 11,2
2
3
DATA2
E 1,3
E 8,3
E 4 3,2
4
5
6
DATA1
E 1,6
E 8,6
9
10
8
E 4 3,5
12
13
11
DATA3
E 1,11
E 8,11

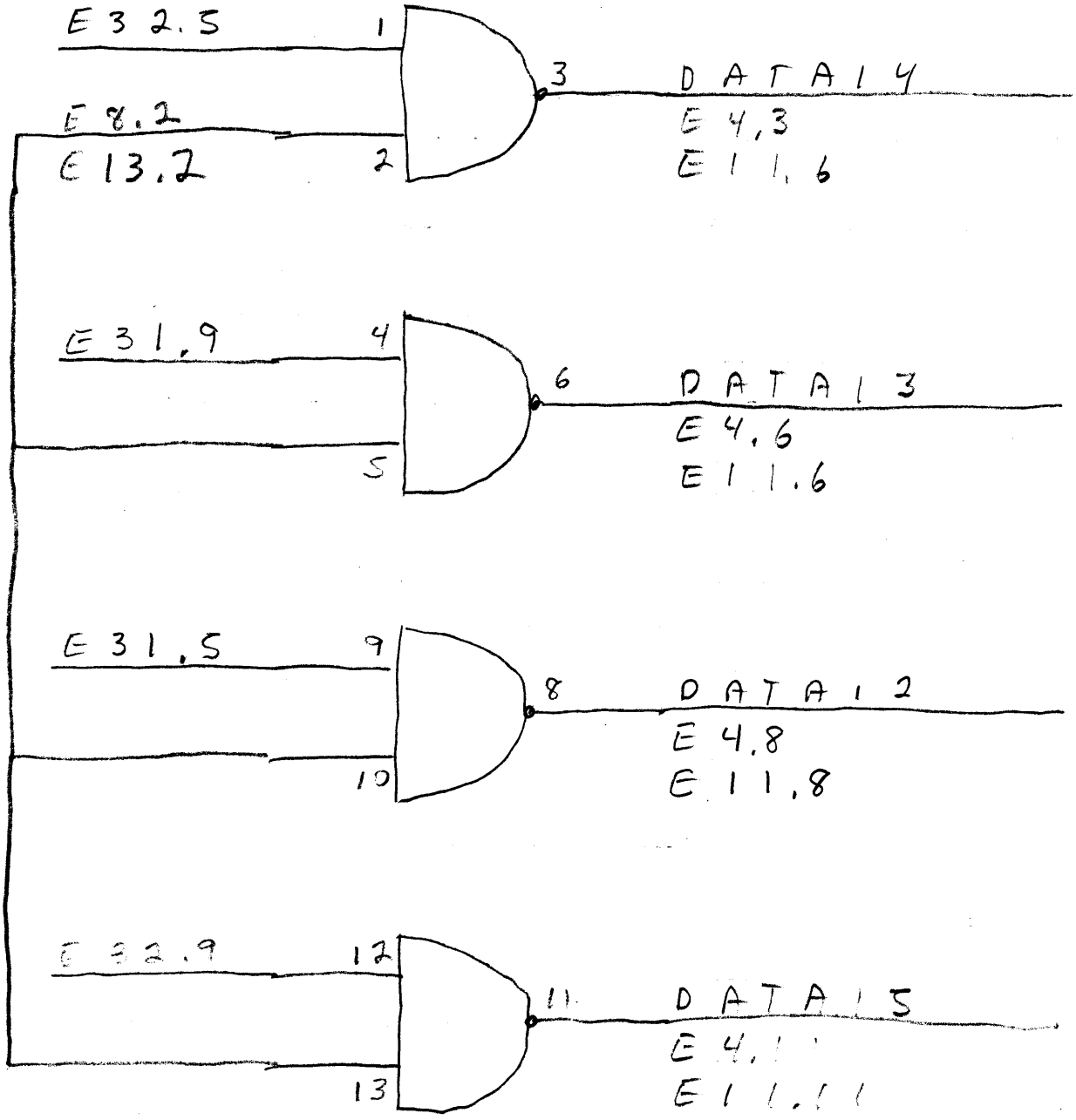
E 1 3 7 4 3 8 0 7 8


E 3 0.5
1
E 1 0.2
E 8.2
2
3
DATA 6
E 2,3
E 9.3
E 2 9,9
4
5
6
DATA 5
E 2,6
E 9, 6
E 2 9.5
9
10
8
DATA 4
E 2.8
E 9,8
E 3 0.9
12
13
11
DATA 7
E 2,1 1
E 9,1 1

E14 7438 078


E 4 4.9
1
2
3
E 9.2
E 11.2
E 3.3
E 10.3
E 4 4.2
4
5
6
E 3.6
E 10.6
E 4 1.8
E 4 4.12
9
10
8
DATA 8
E 3.8
E 10.8
E 4 4.5
12
13
11
E 3.11
E 10.11

E15 7438 078



E1

E3

E3

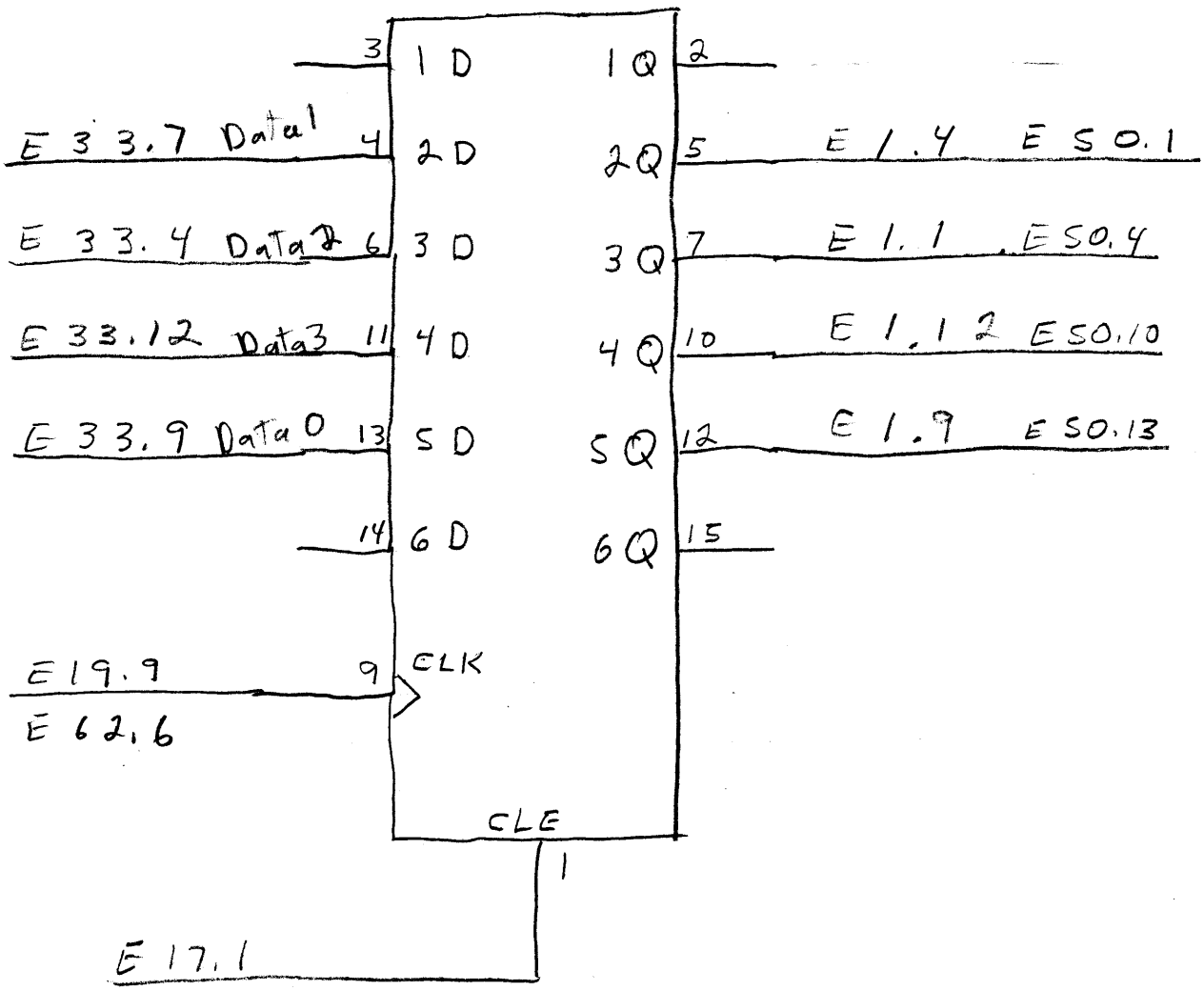
E3

E3

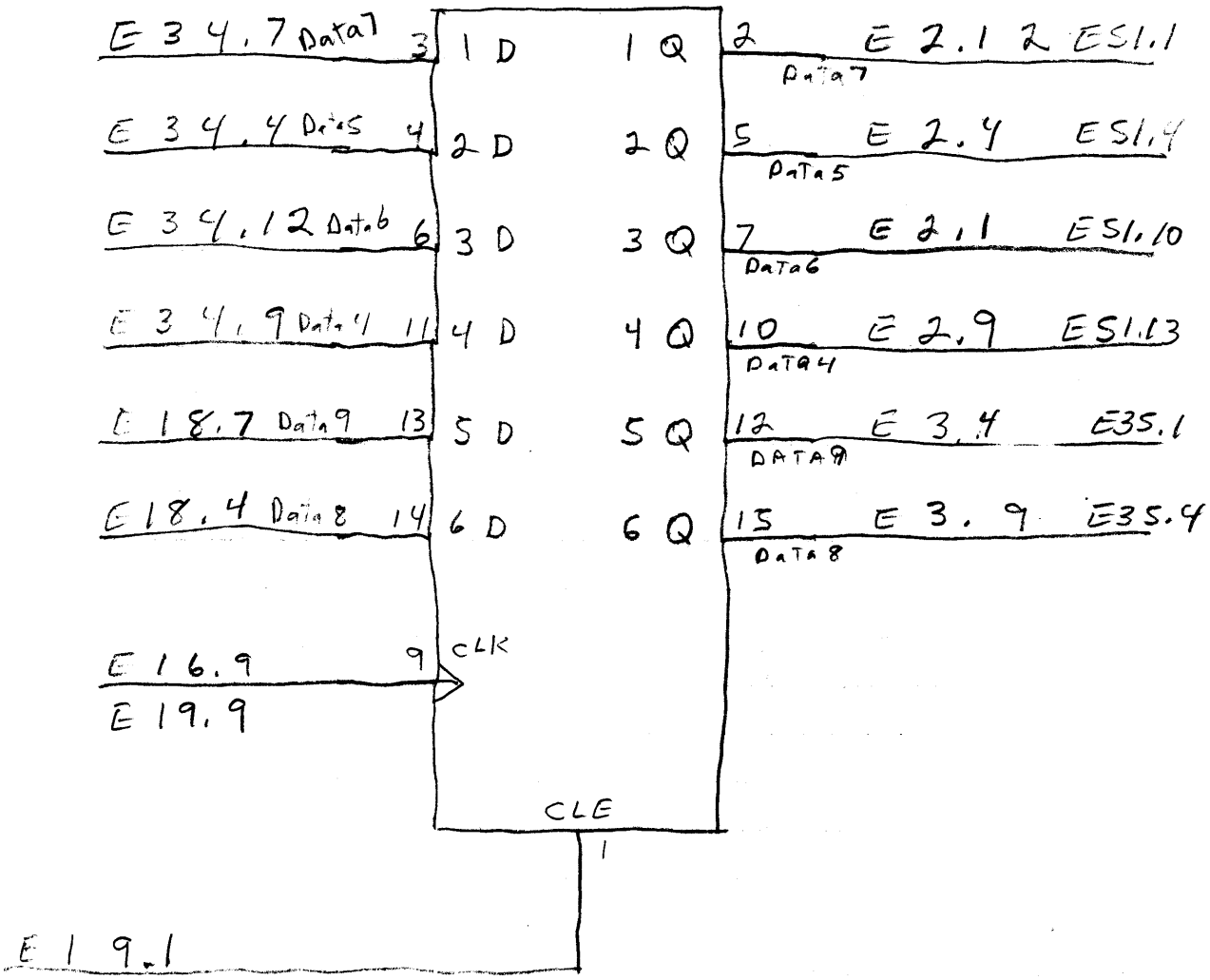
E19

E6

E16 74174


3
1D
1Q
2
E33.7 Data1
4
2D
2Q
5
E1.4 ES0.1
E33.4 Data2
6
3D
3Q
7
E1.1 ES0.4
E33.12 Data3
11
4D
4Q
10
E1.12 ES0.10
E33.9 Data0
13
5D
5Q
12
E1.9 ES0.13
14
6D
6Q
15
E19.9
E62.6
9
CLK
CLE
1
E17.1

E17 74174


E34.7 Data7
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1D
1Q
2
E2.12 ES1.1
Data7
E34.4 Data5
4
2D
2Q
5
E2.4 ES1.4
Data5
E34.12 Data6
6
3D
3Q
7
E2.1 ES1.10
Data6
E34.9 Data4
11
4D
4Q
10
E2.9 ES1.13
Data4
E18.7 Data9
13
5D
5Q
12
E3.4 E35.1
DATA9
E18.4 Data8
14
6D
6Q
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E3.9 E35.4
Data8
E16.9
E19.9
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CLK
CLE
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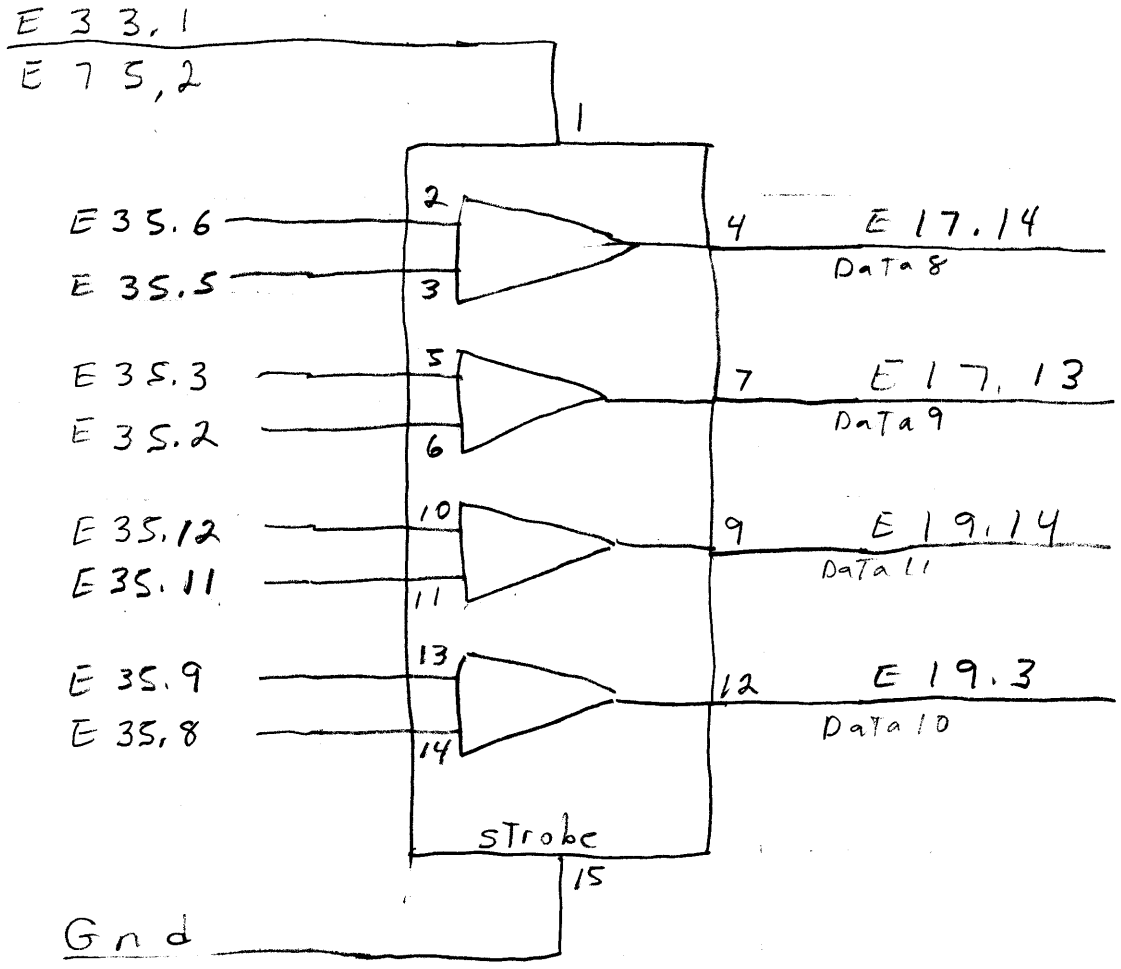
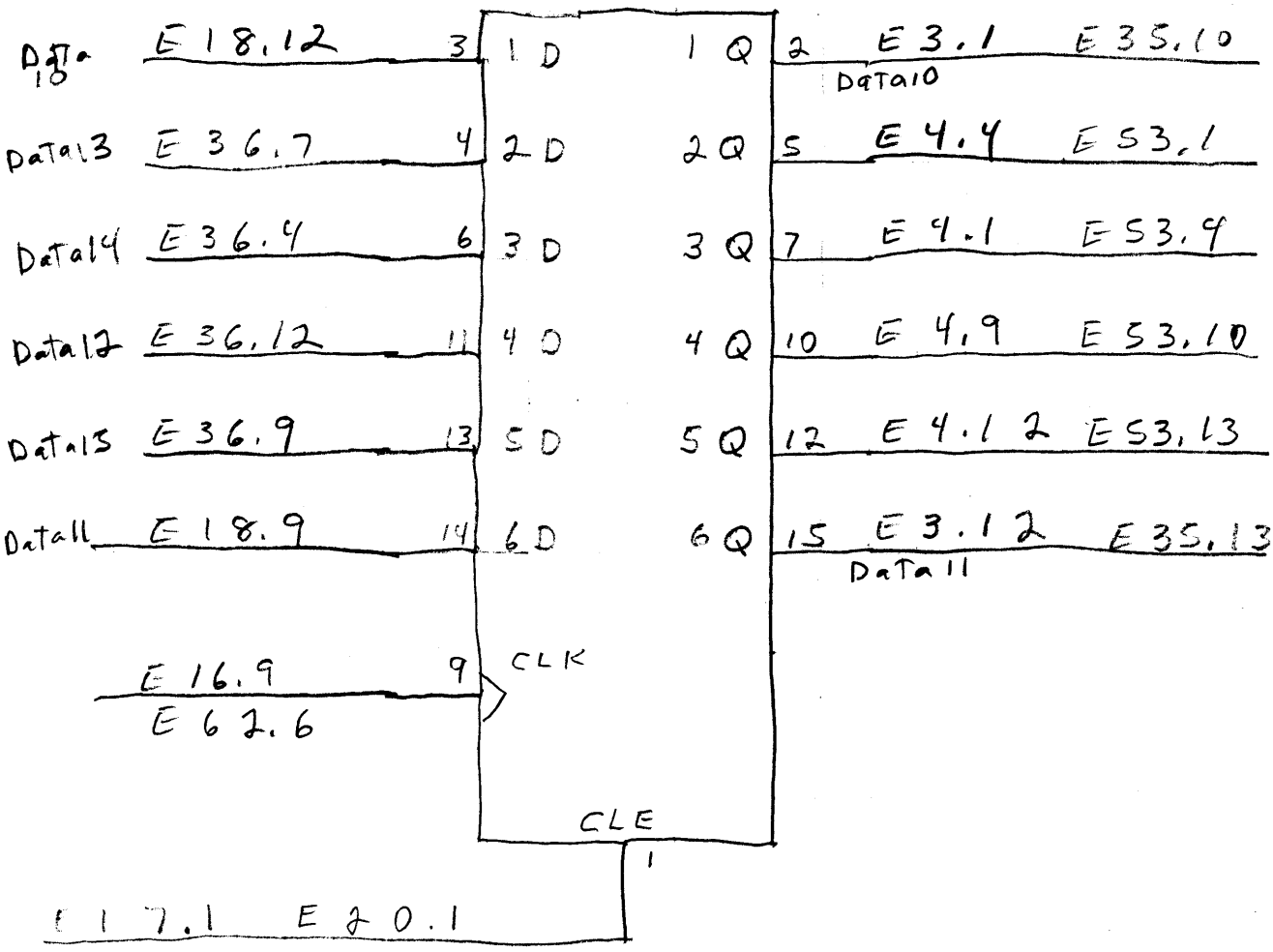
E19.1

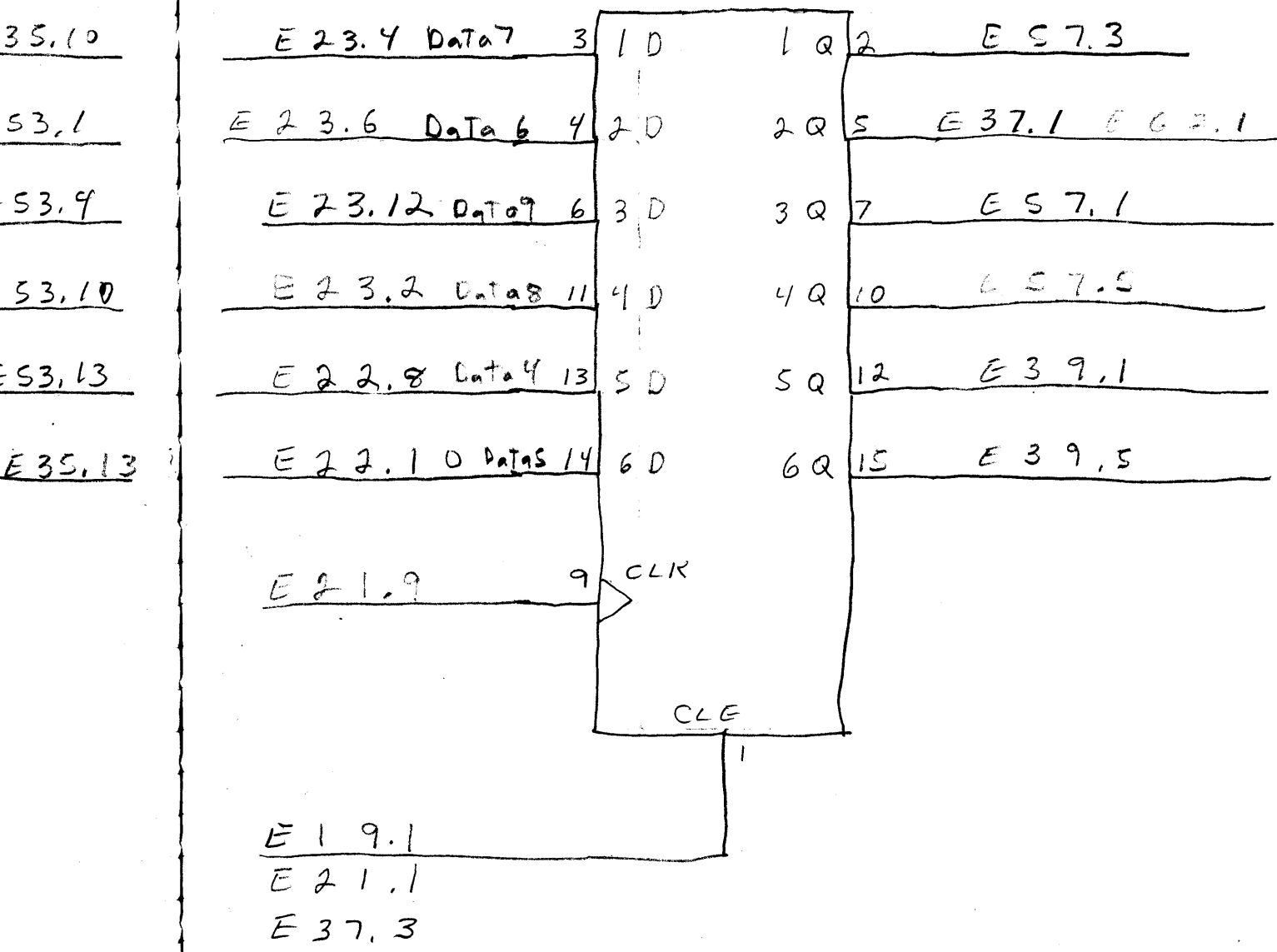
E18 9322 74157



E19 74174


Data E18.12 3 1D 1Q 2 E3.1 E35.10 DaTa10
Data13 E36.7 4 2D 2Q 5 E4.4 E53.1
Data14 E36.4 6 3D 3Q 7 E4.1 E53.9
Data12 E36.12 11 4D 4Q 10 E4.9 E53.10
Data15 E36.9 13 5D 5Q 12 E4.12 E53.13
Data11 E18.9 14 6D 6Q 15 E3.12 E35.13 DaTa11
E16.9 E62.6 9 CLK
CLE 1
E17.1 E20.1

E20 74174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E53.1
E53.9
E53.10
E53.13
E35.13
E23.4 DaTa7 3
E23.6 DaTa6 4
E23.12 DaTa9 6
E23.2 DaTa8 11
E22.8 DaTa4 13
E22.10 DaTa5 14
E21.9 9
CLR
1D
2D
3D
4D
5D
6D
1Q
2Q
3Q
4Q
5Q
6Q
2
5
7
10
12
15
E57.3
E37.1
E57.1
E57.5
E39.1
E39.5
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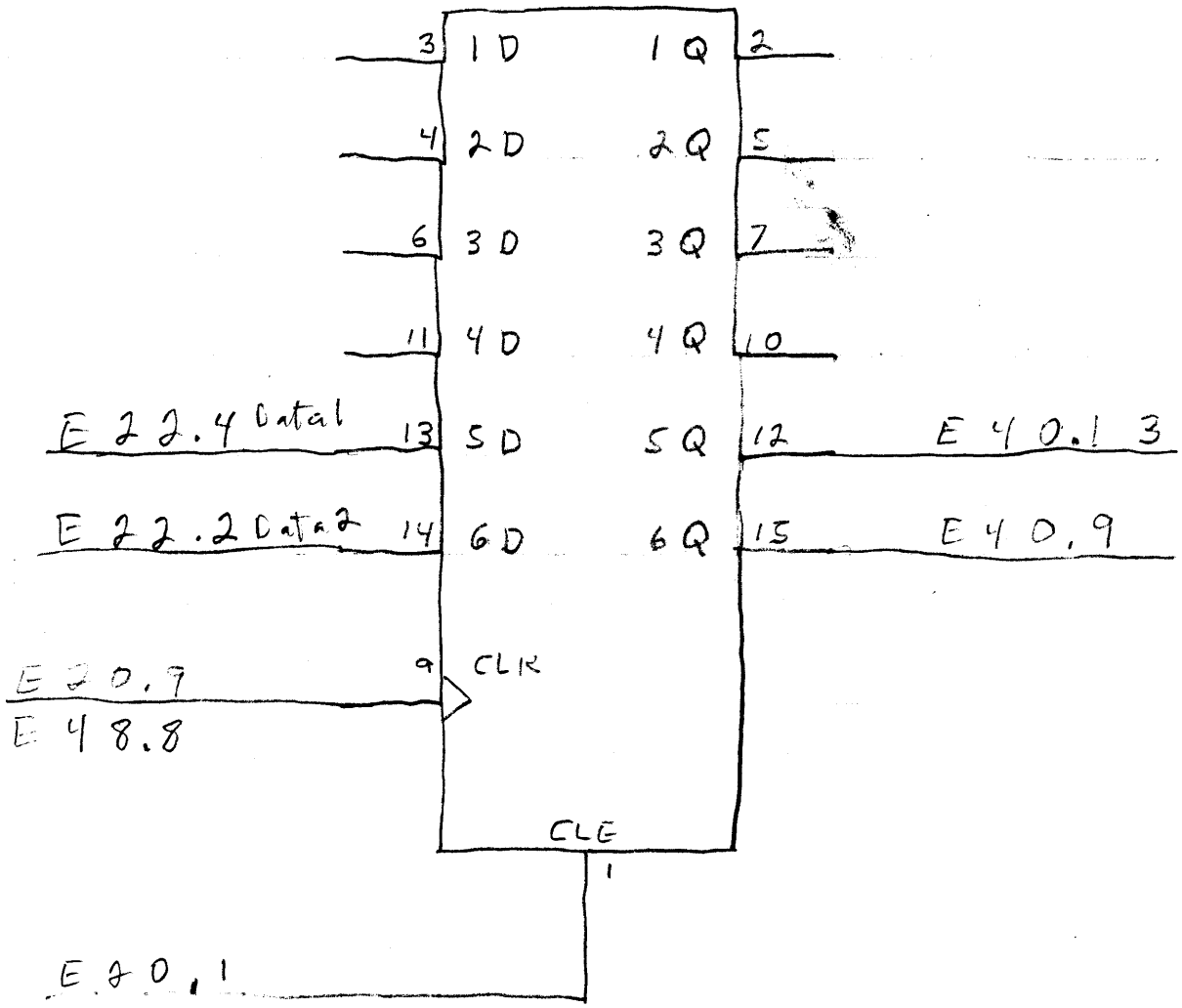
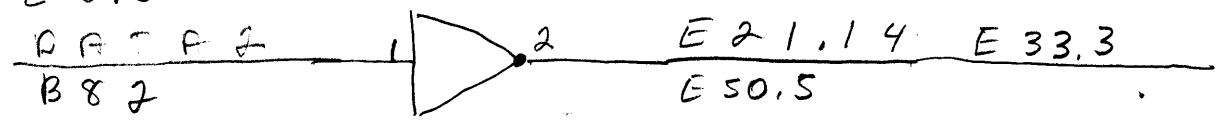
E19.1
E21.1
E37.3

E21 74174


3 1D
1Q 2
4 2D
2Q 5
6 3D
3Q 7
11 4D
4Q 10
E22.4 Data1 13 5D
5Q 12 E40.13
E22.2 Data2 14 6D
6Q 15 E40,9
E20.7
E48.8
9 CLR
CLE
1
E40,1
E25.1

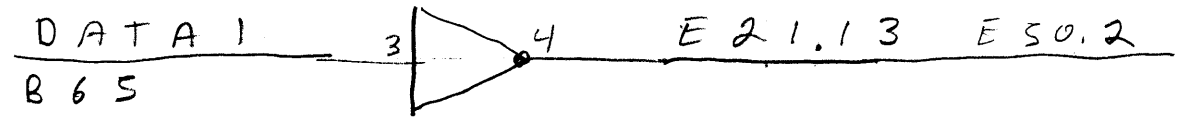
E 2 2 8 4 9 0 7 4 H 0 4

E 1 2, 3
E 8.3
DATA 7
B 8 7



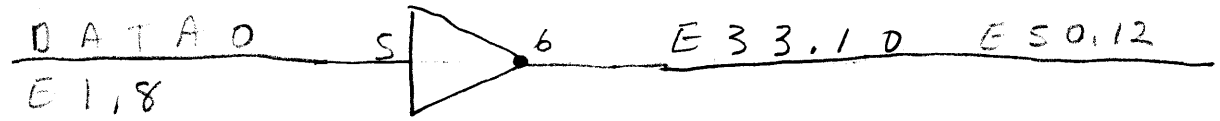
E 2 1. 1 4 E 33.3
E 50.5

DATA 1
B 6 5
E 1.6,



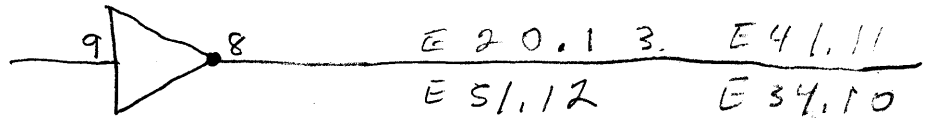
E 2 1. 1 3 E 50. 2

DATA 0
E 1, 8



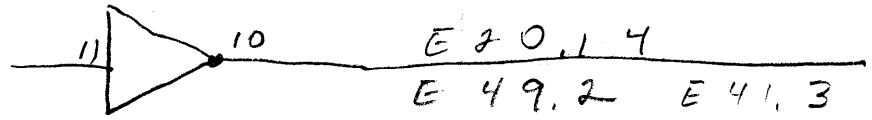
E 3 3. 1 0 E 5 0, 12

DATA 4
E 2. 8



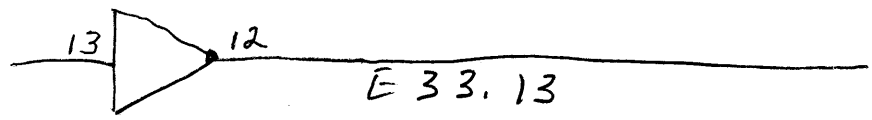
E 2 0. 1 3. E 4 1, 11
E 51, 12 E 34, 10

DATA 5
E 2. 6



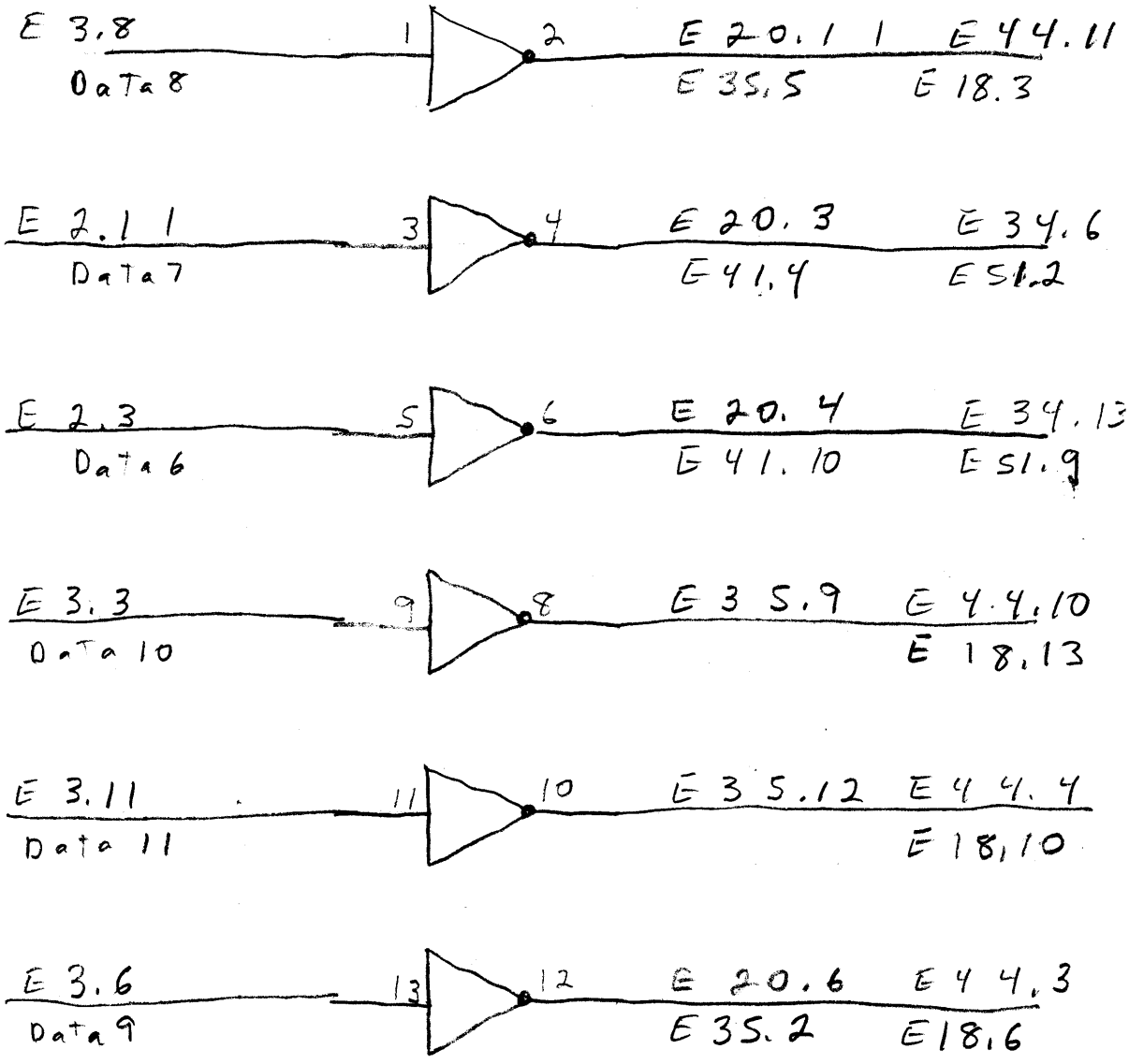
E 2 0, 1 4
E 4 9. 2 E 4 1. 3
E 51. 5 E 34. 3

DATA 3
E 1. 1 1
E 8. 1 1
E 1 2. 1 1

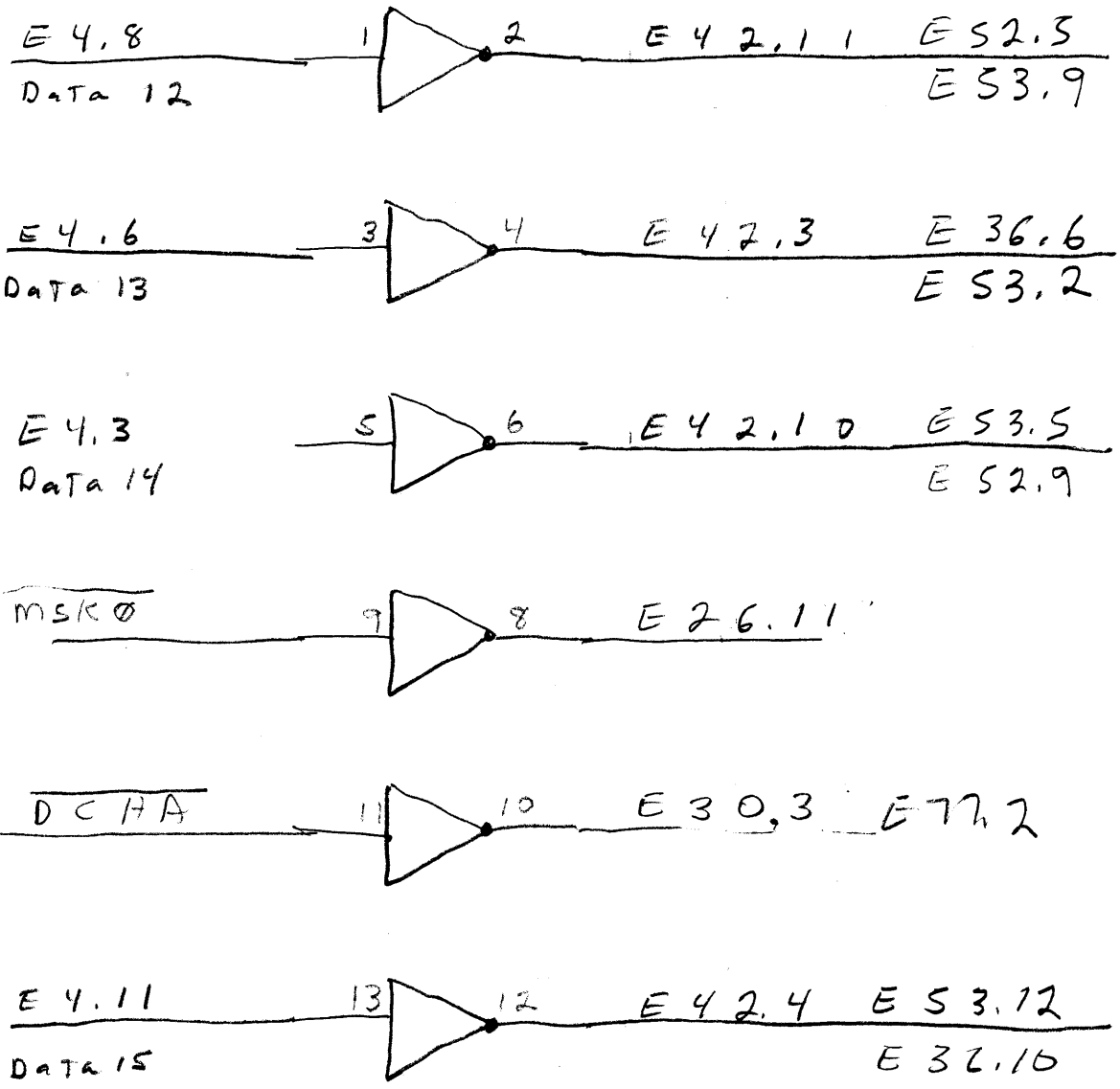


E 33. 13
E 43. 4
E 73. 2

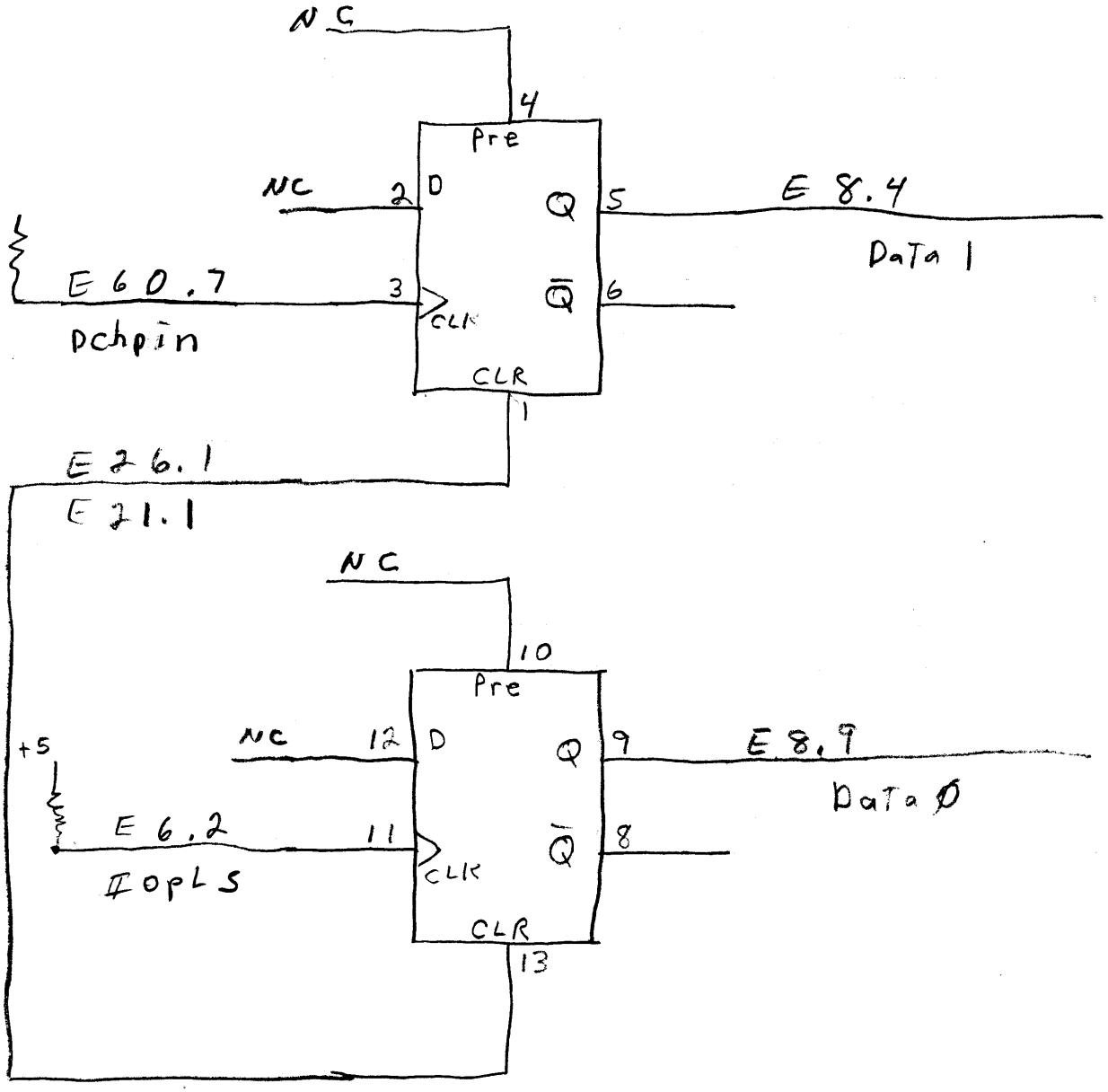
E23 8H90 74H04



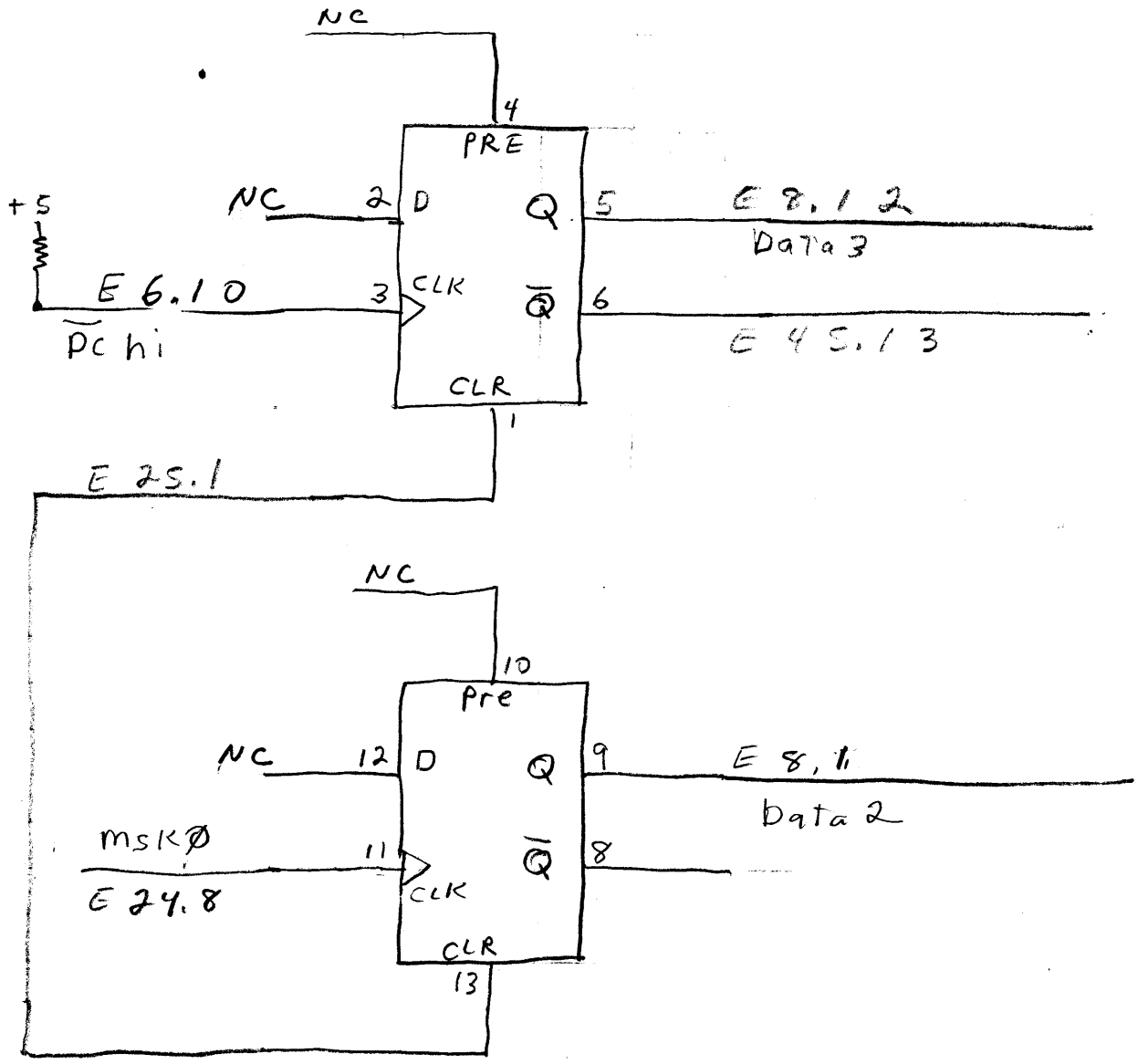
E24 8H90 74H04



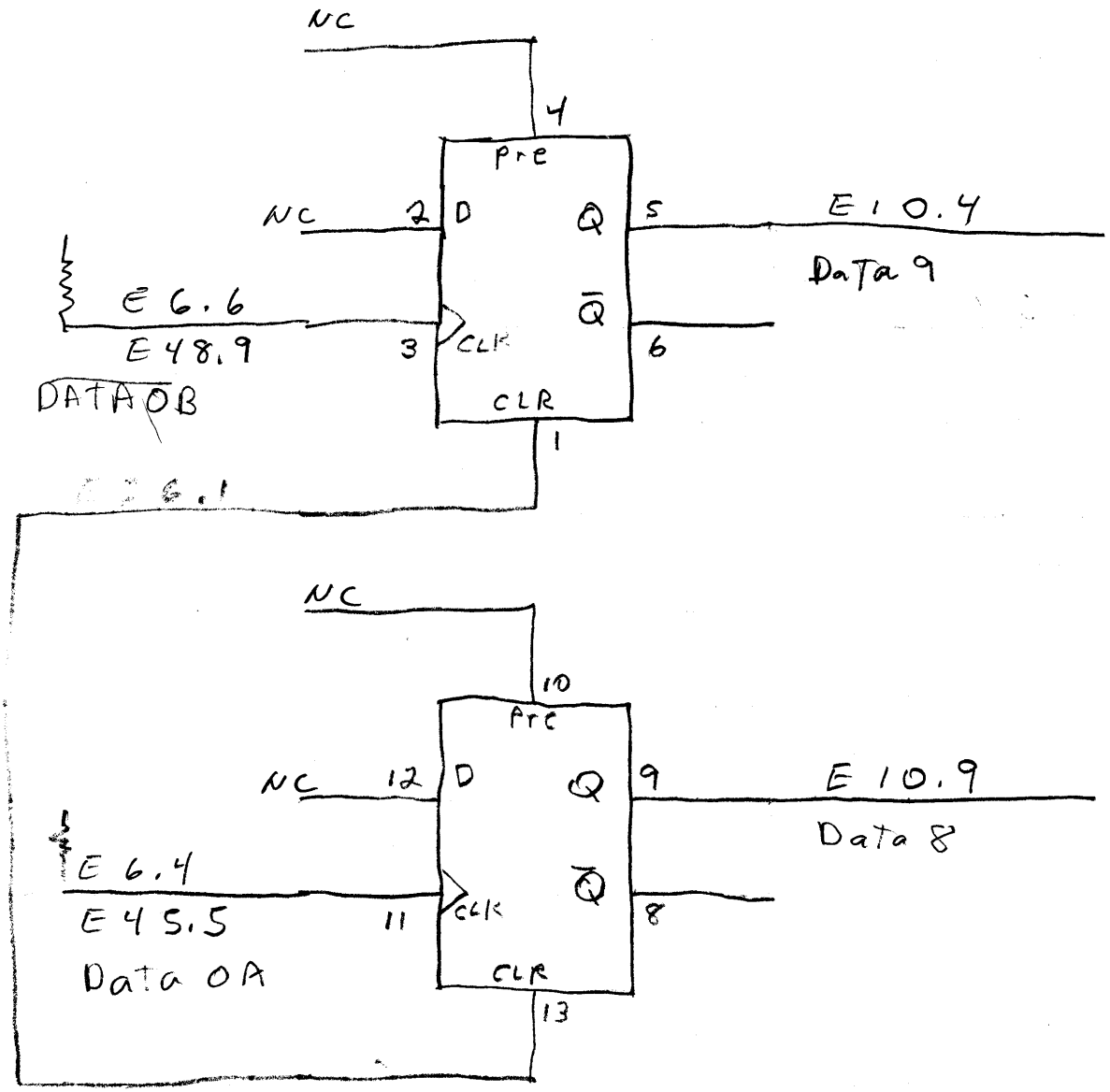
E25 8828 7474



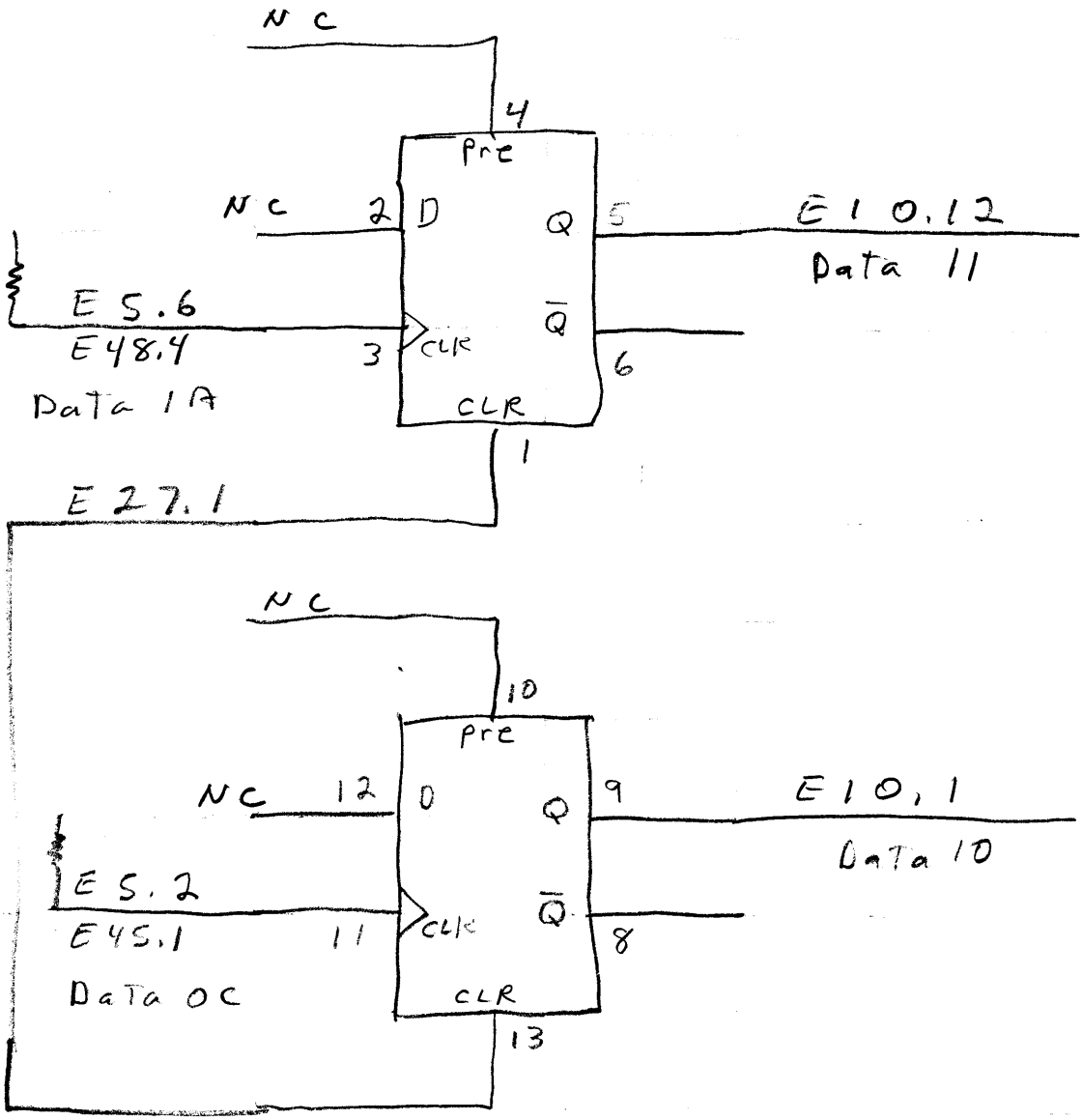
E 26 8828 7474



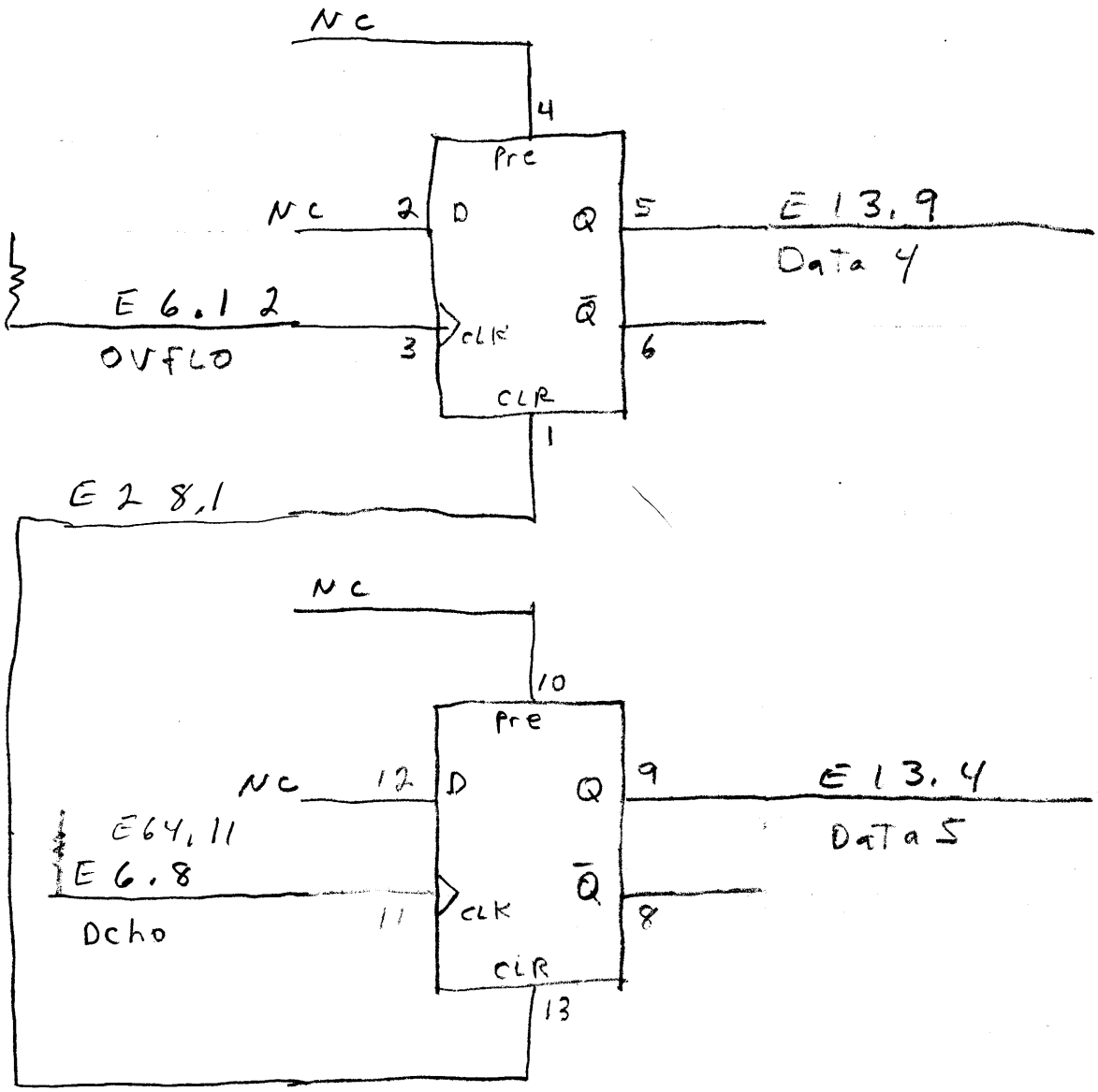
E27 8828 7474



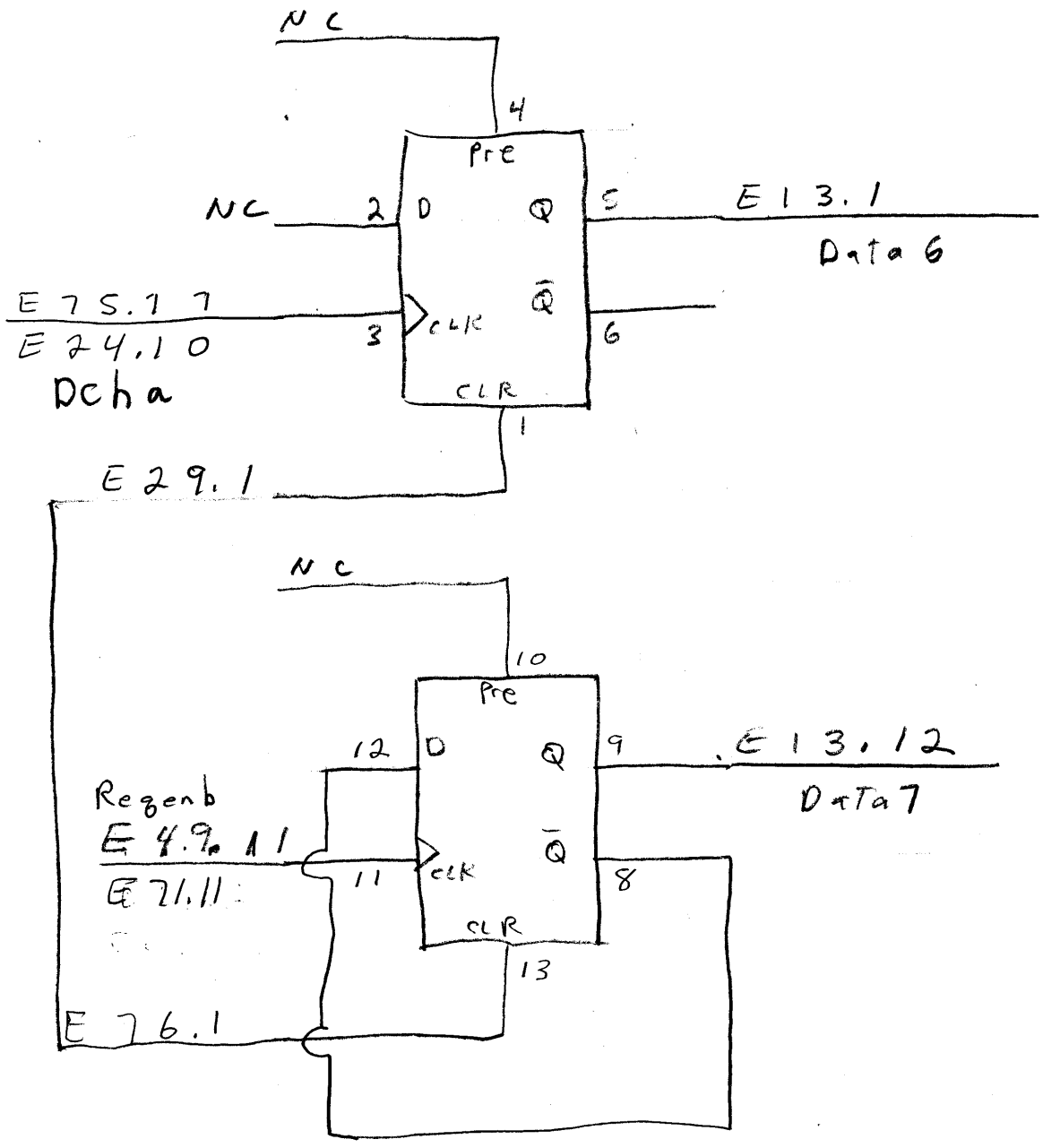
E28 8828 7474



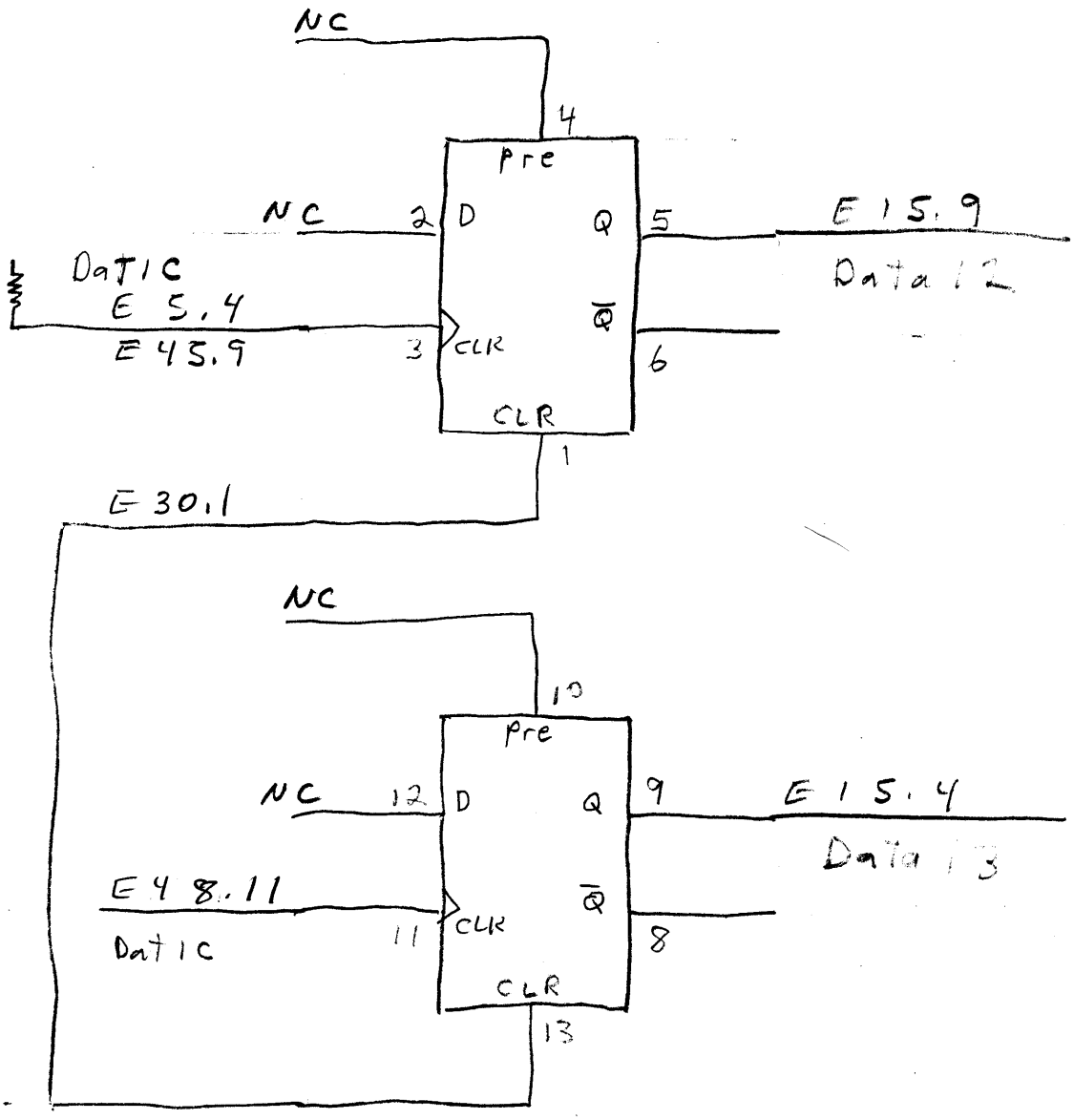
E 3 7 8828 7474



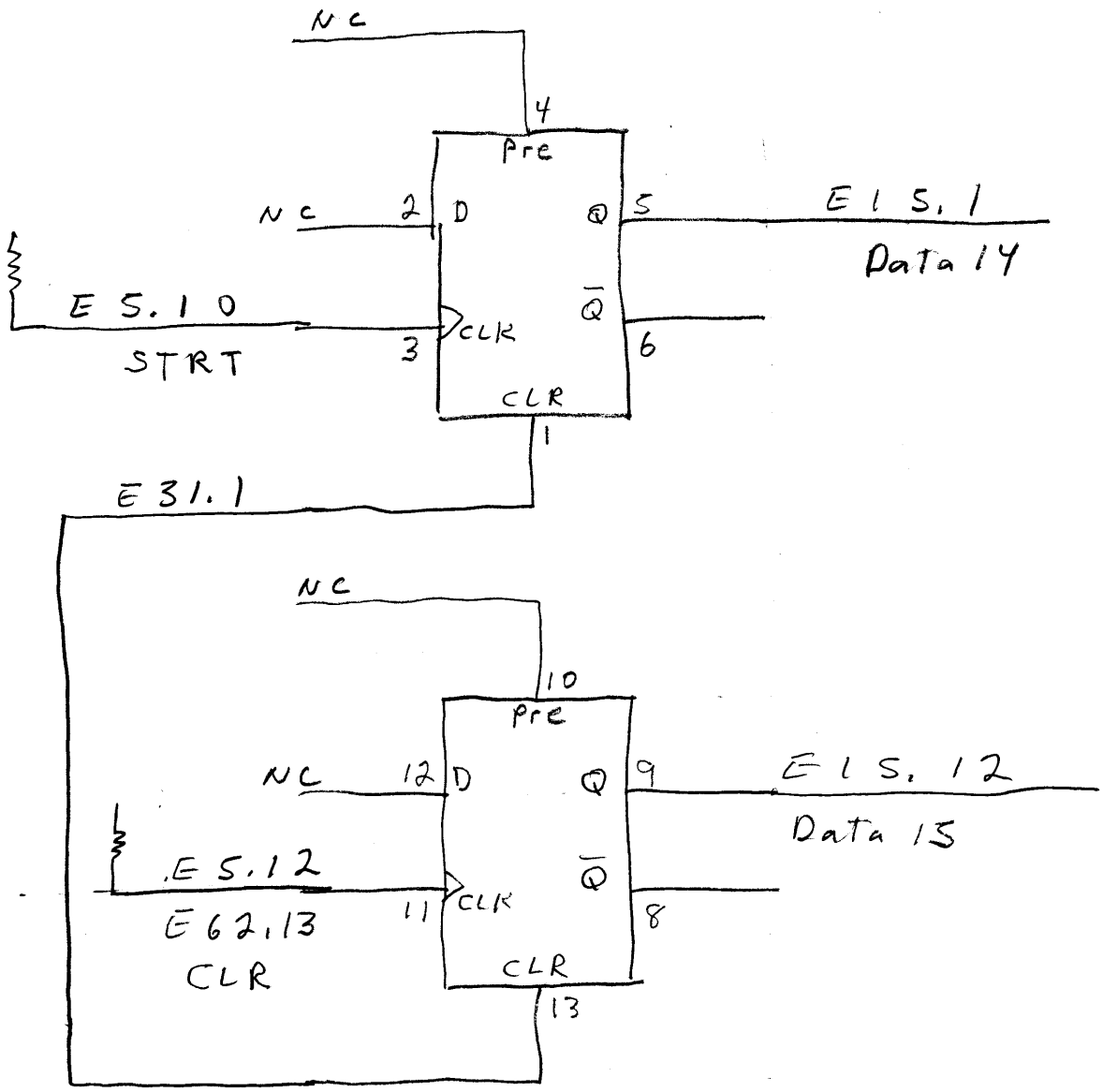
E30 8828 7474



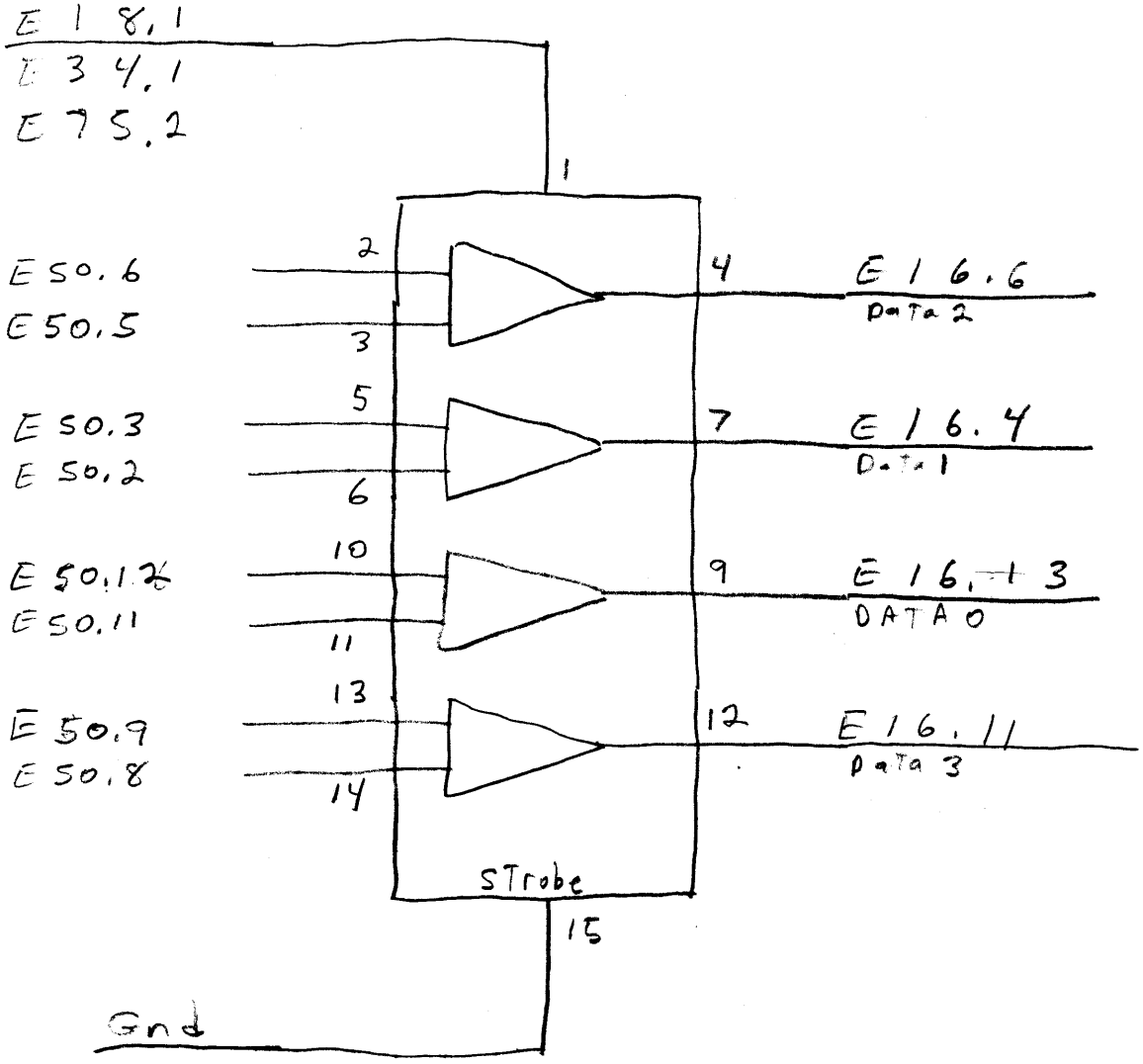
E 31 8828 7474



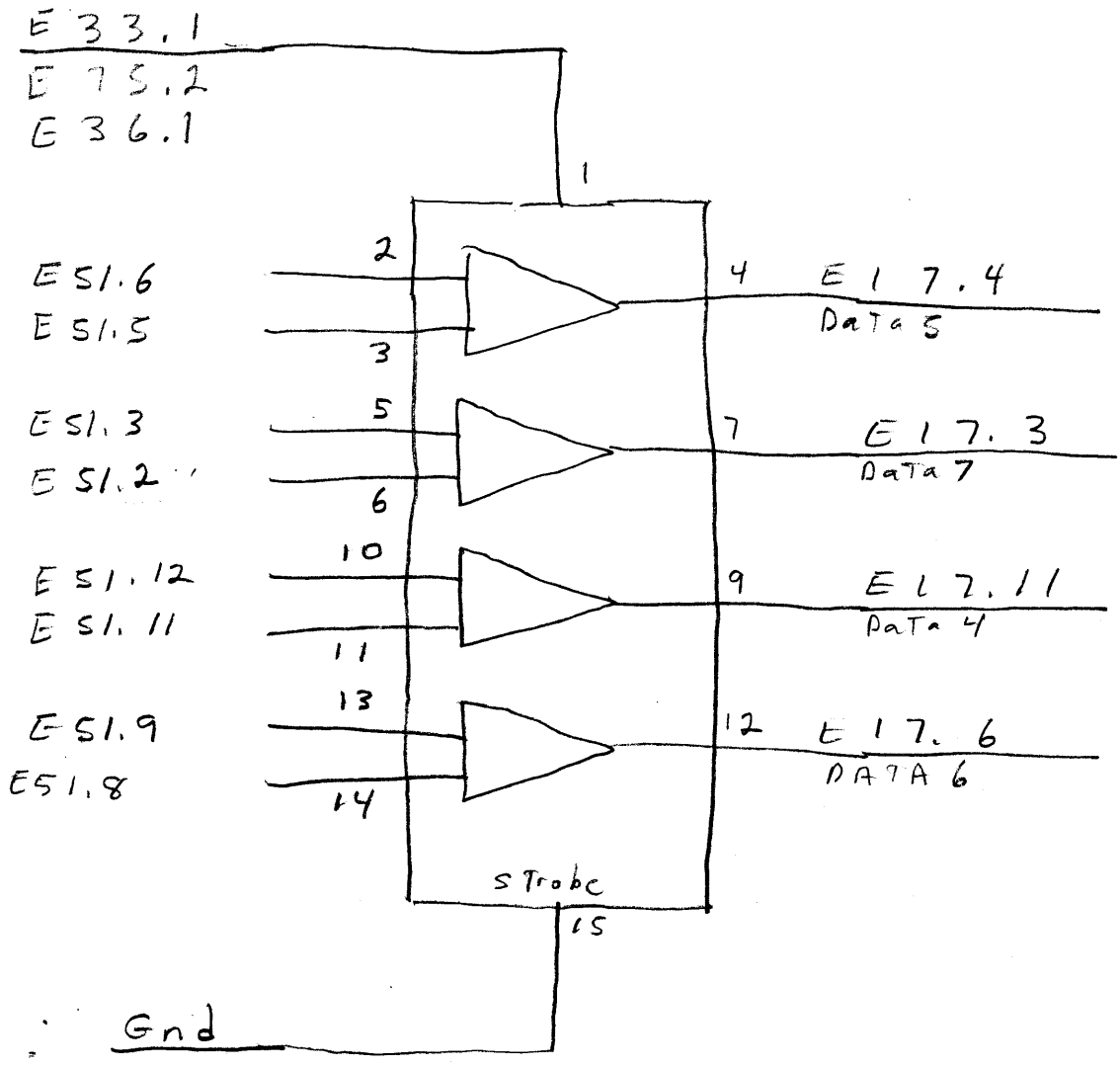
E32 8828 7474



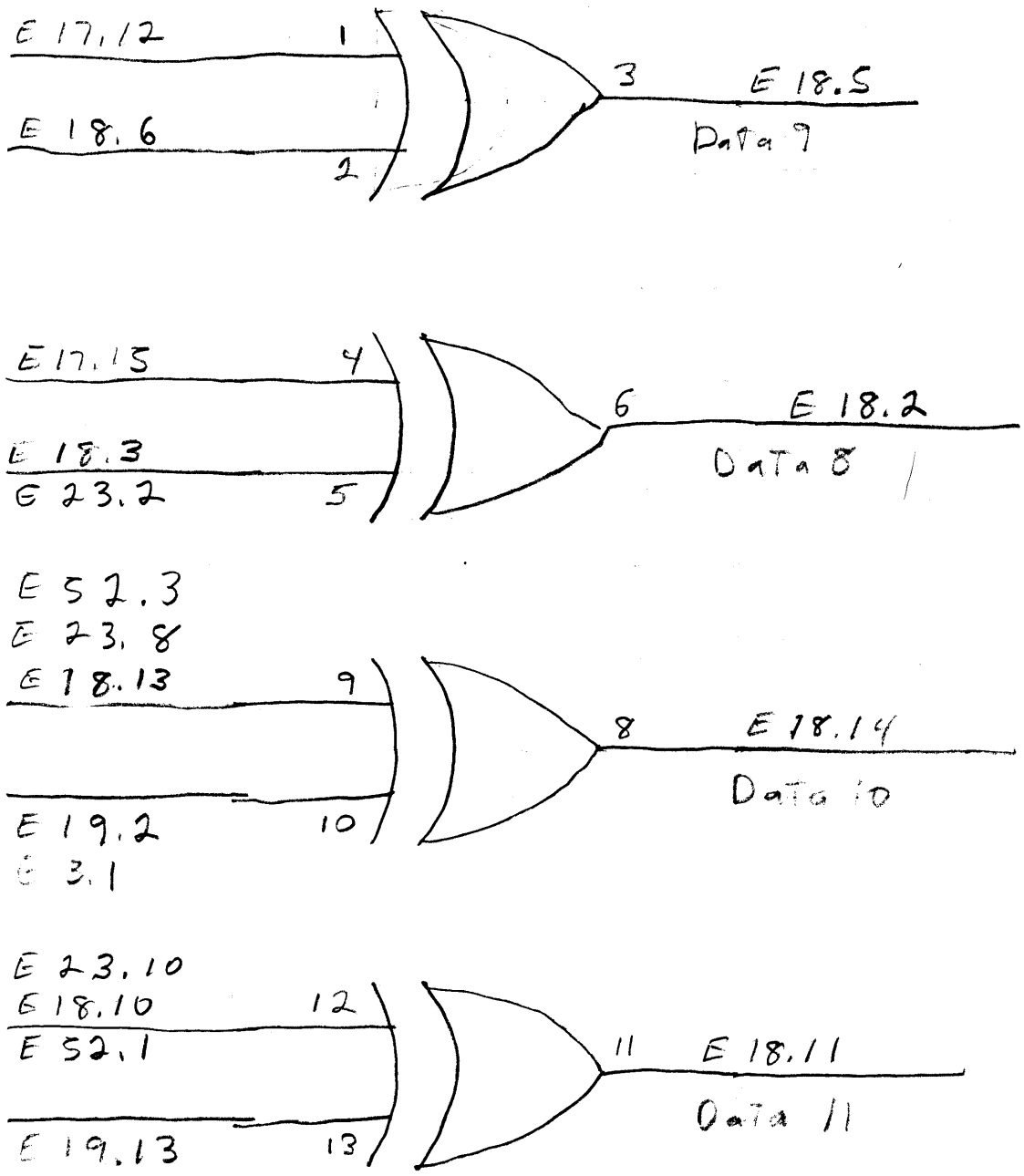
E33 9382 74157



E34 9322 74157



E 35 7486



E 36

E 7 5
E 34

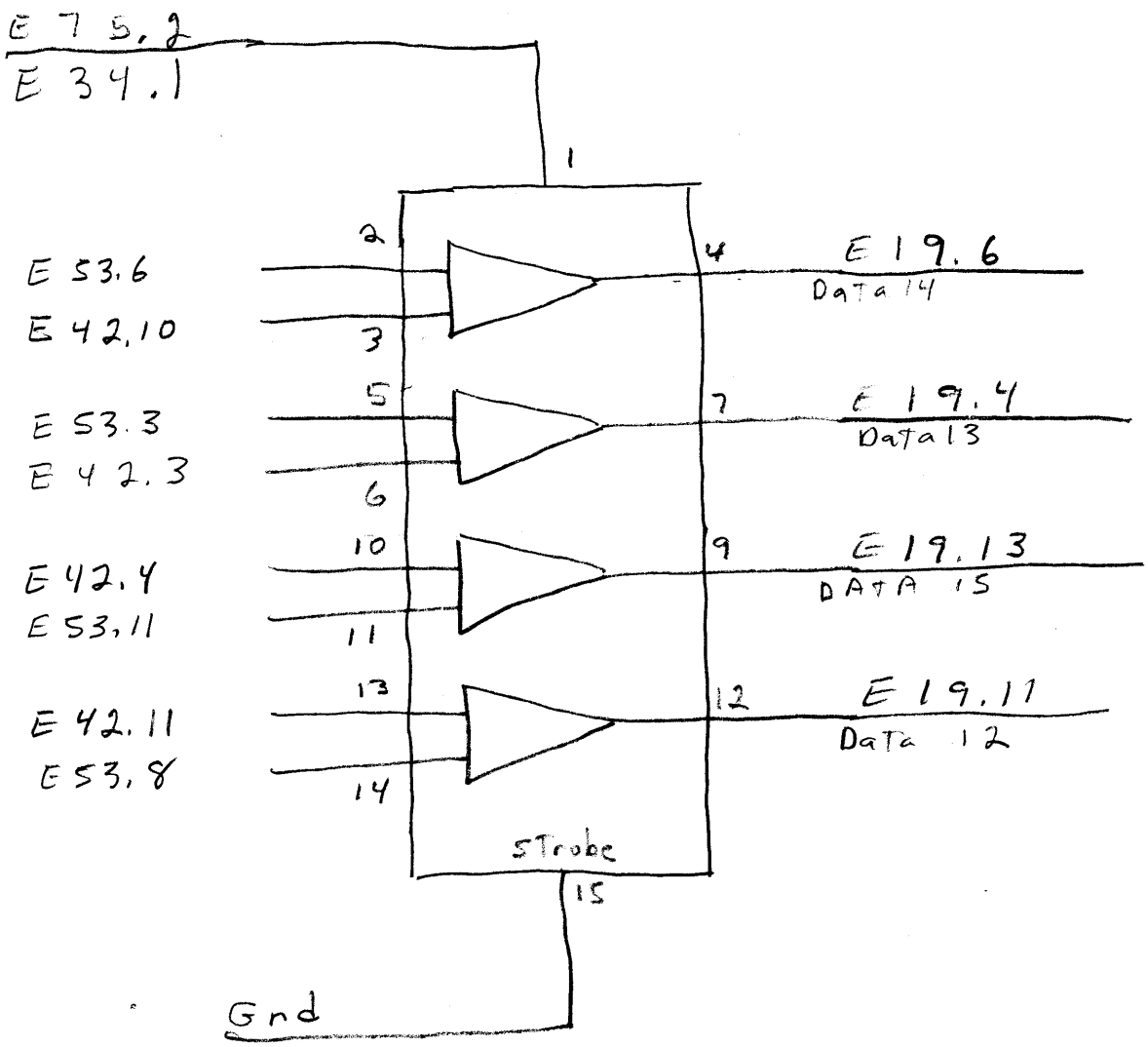
E 53.
E 42.

E 53.
E 42

E 42.
E 53,

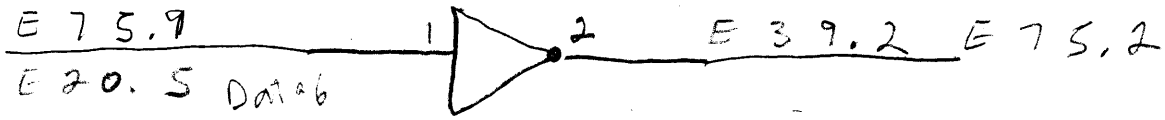
E 42.
E 53,

E36 9322 74157

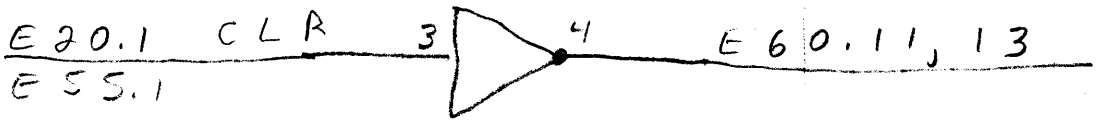


E37 8H90 74H04

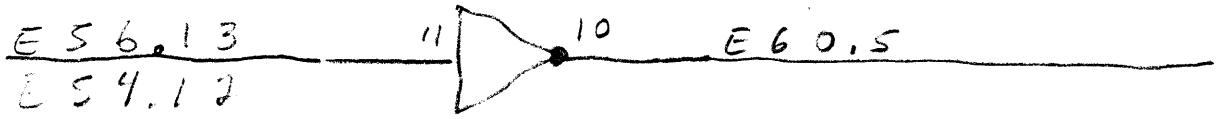
E62.1
E56.9
E75.9
E20.5 DMA6

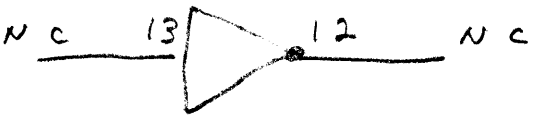


E20.1 CLR
E55.1

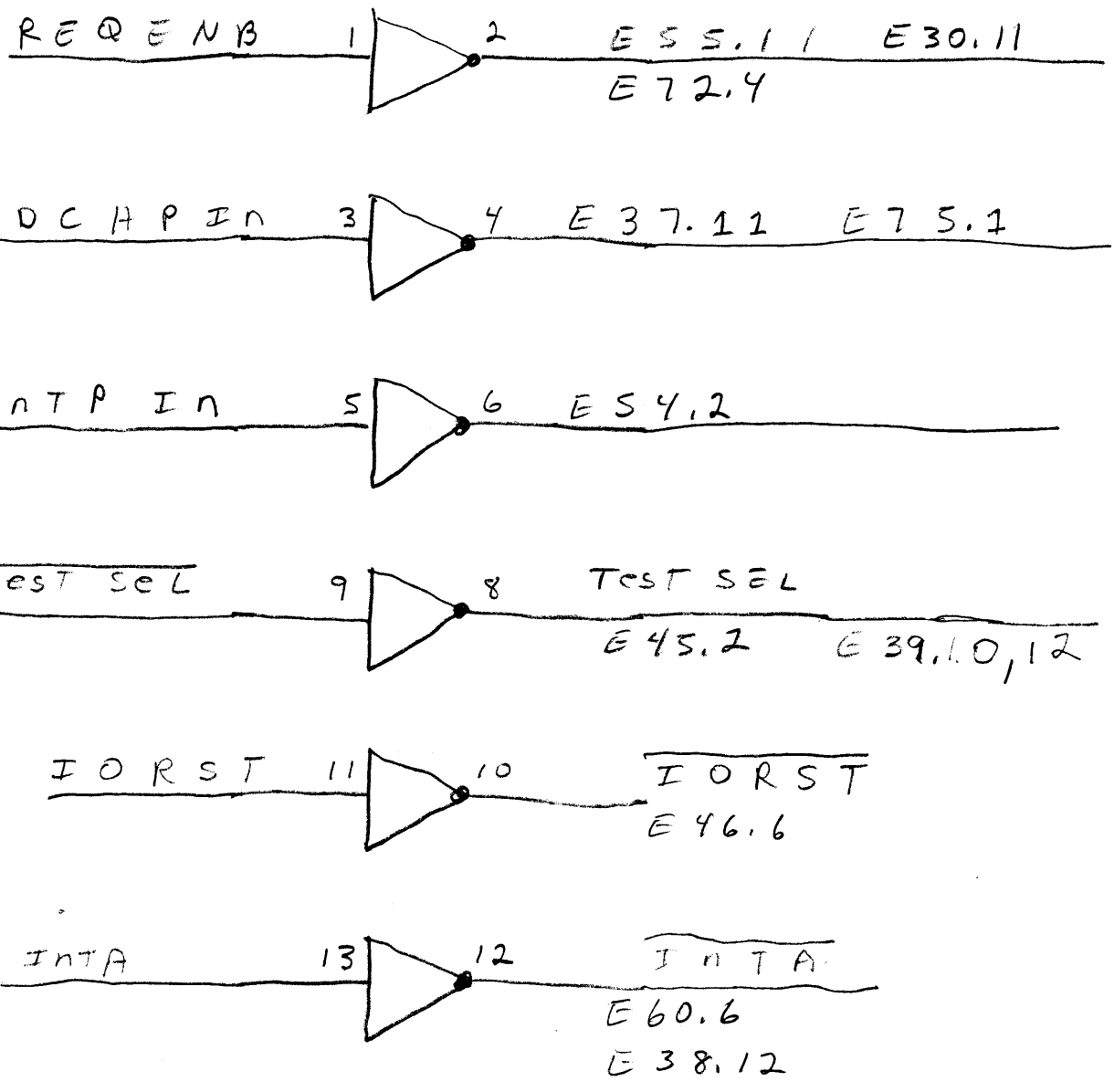


E56.13
E54.12
E38.4



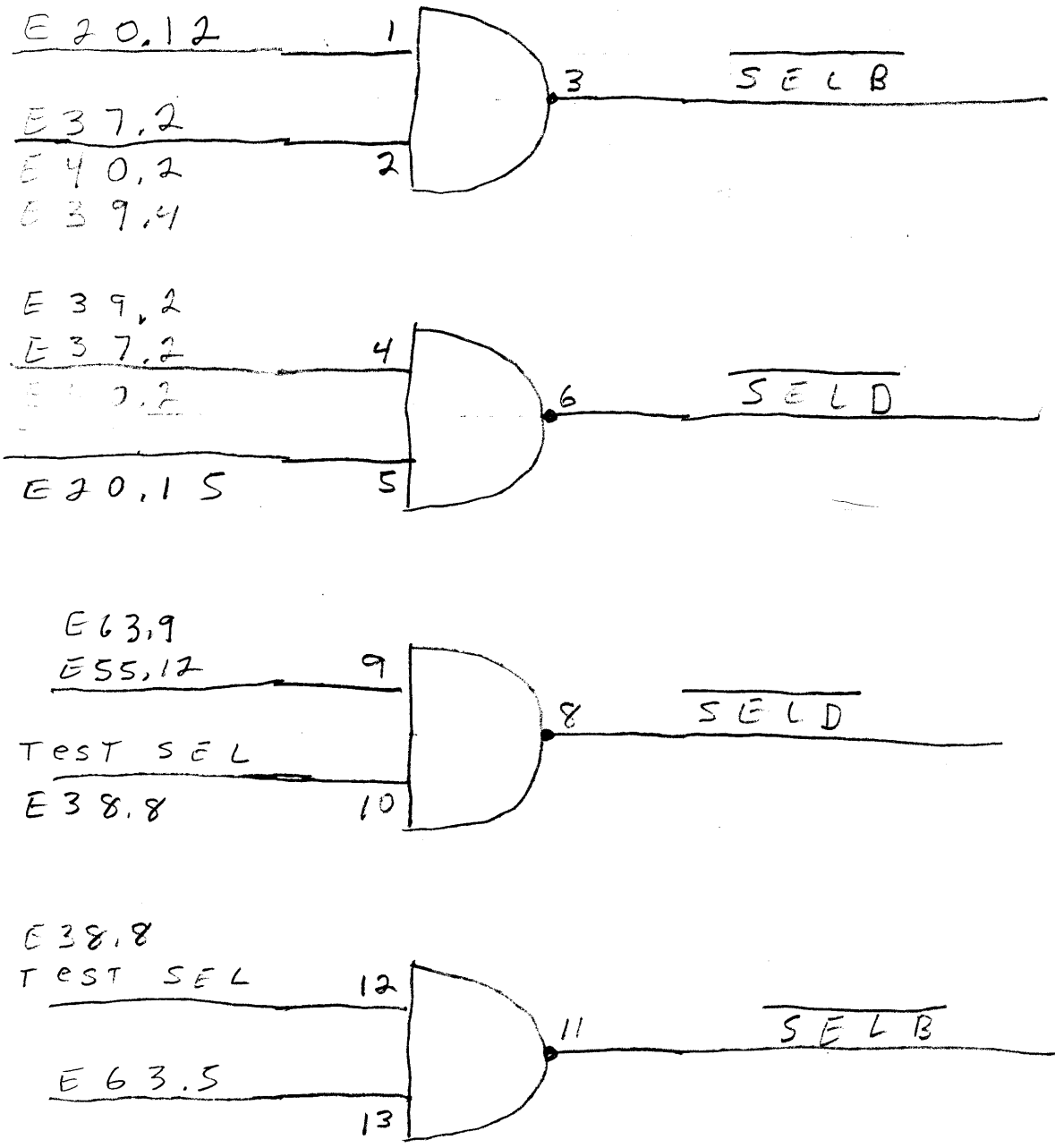


E38 8H90 74H04



E 3 9 7 4 3 8 0 7 8

E 4



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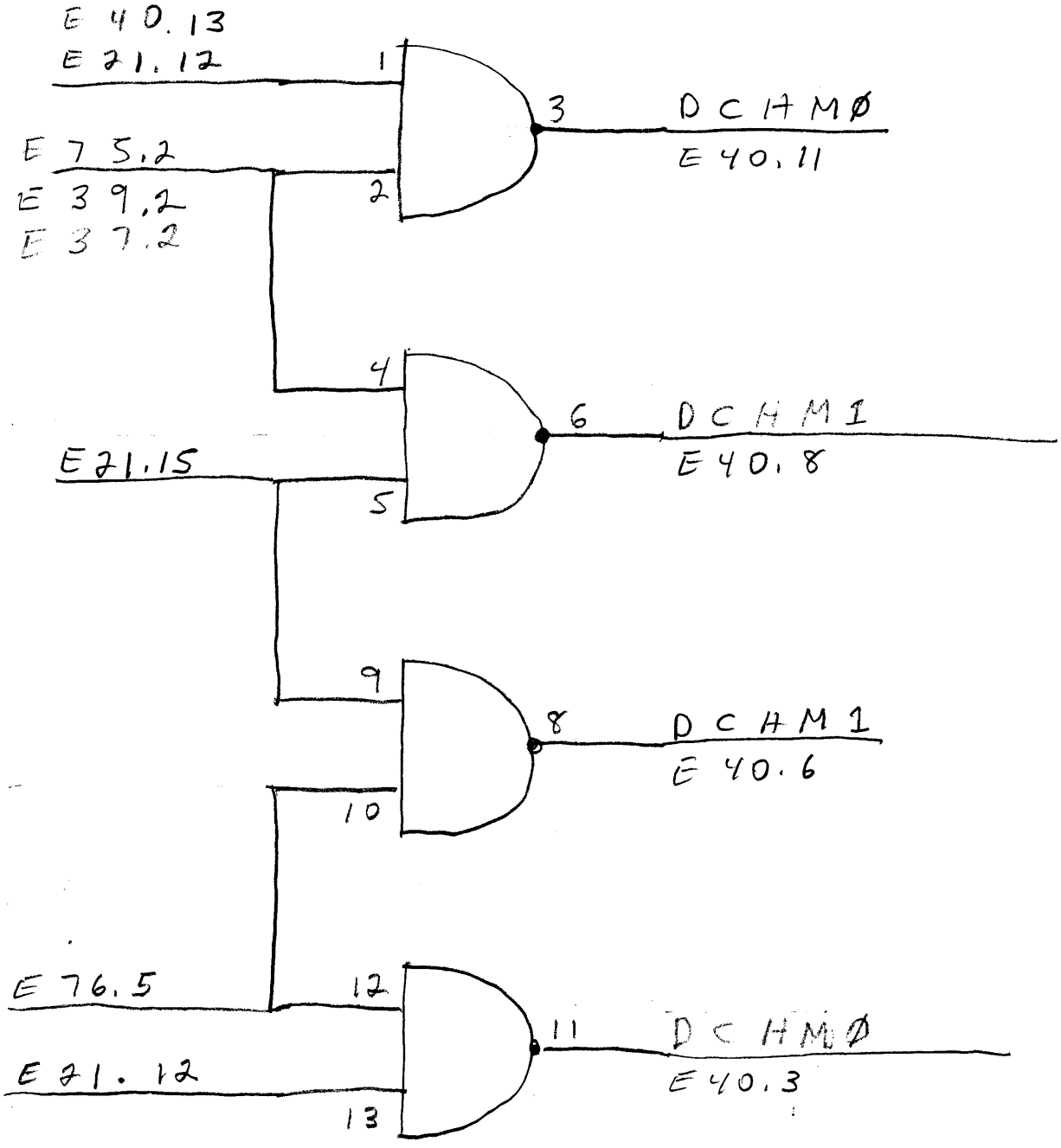
E 2 1.

E 7 6, 5

E 2 1.

E40 7438 078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E75.2
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E37.2
2
3
DCHMØ
E40.11
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E21.15
5
6
DCHM1
E40.8
9
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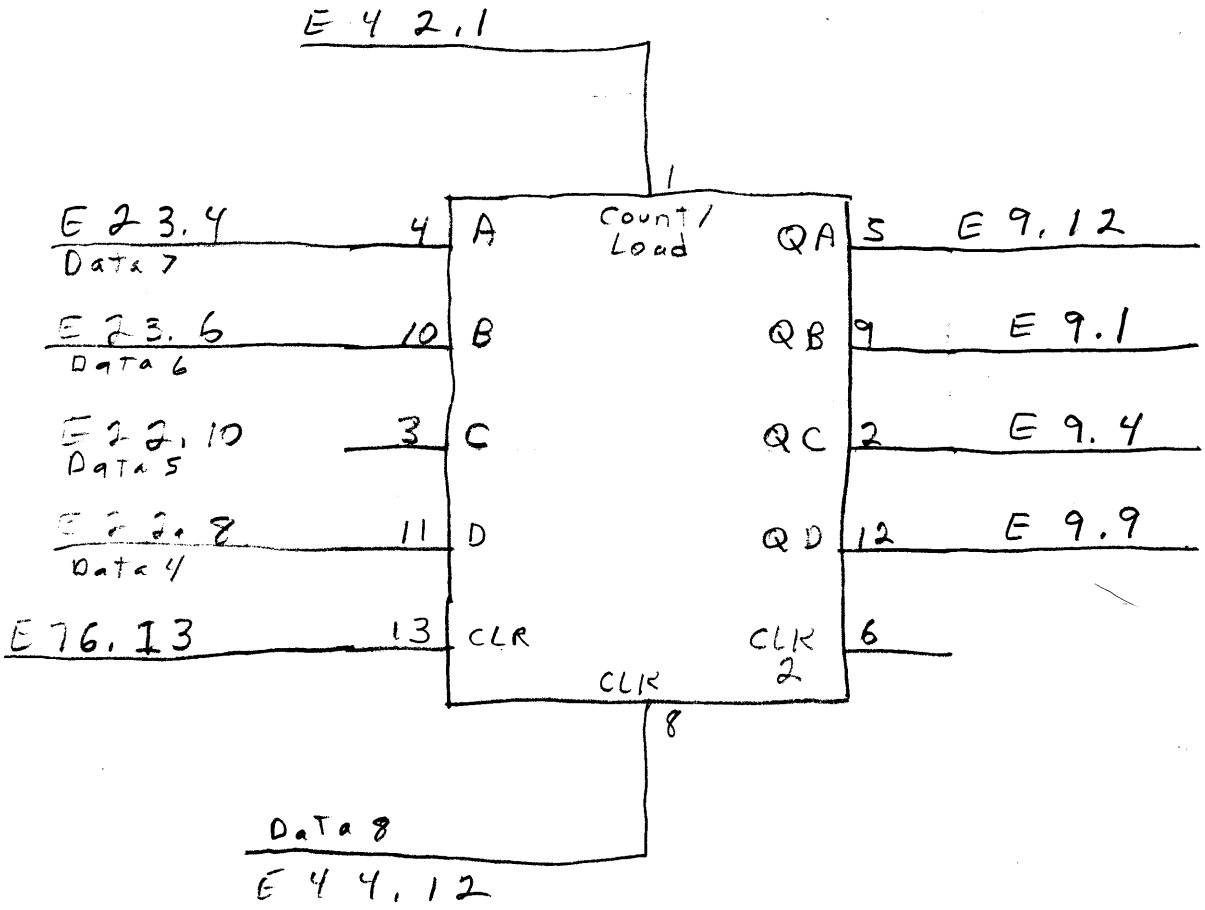
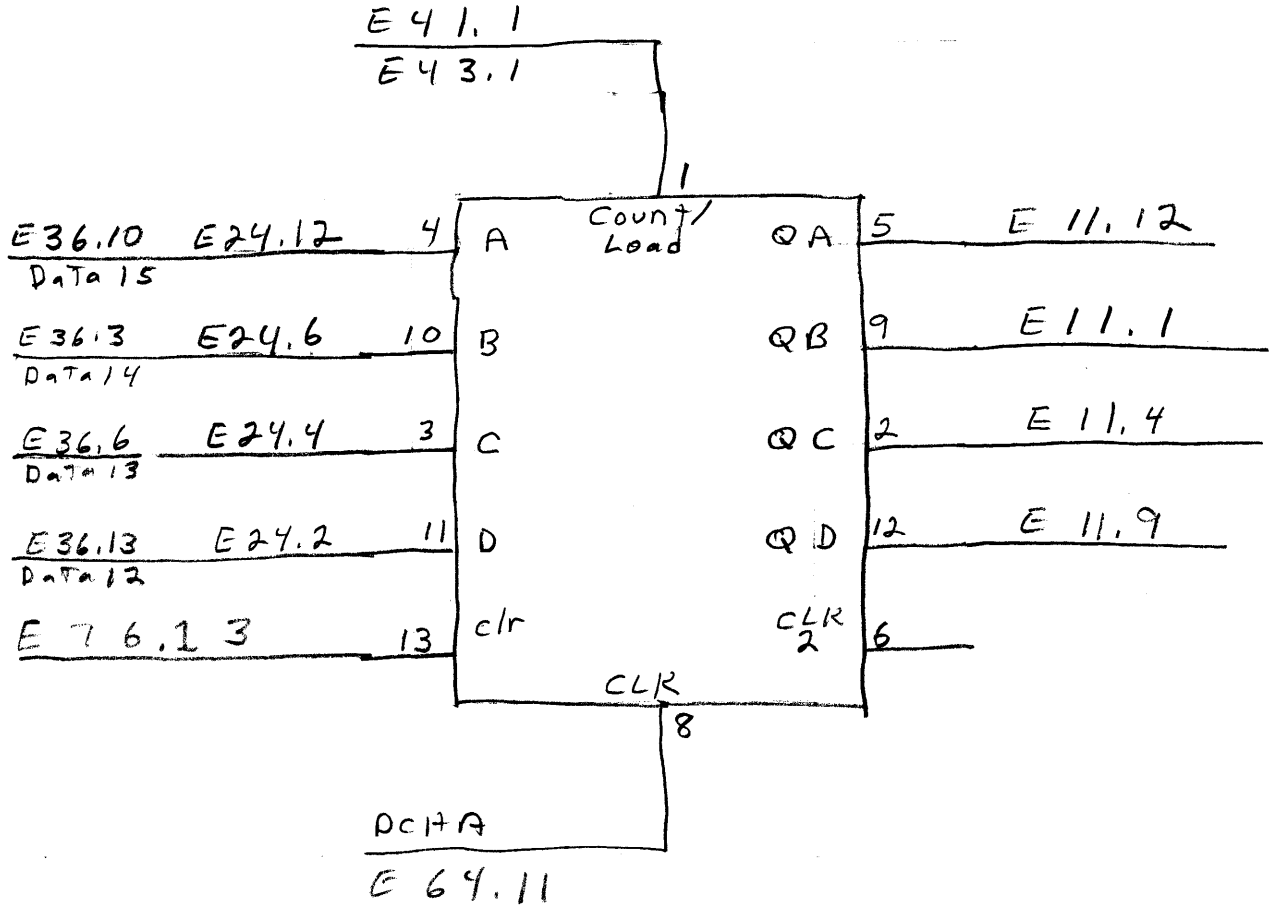
E40.6
E76.5
E21.12
12
13
11
DCHMØ
E40.3

E41 8291 74197 E4

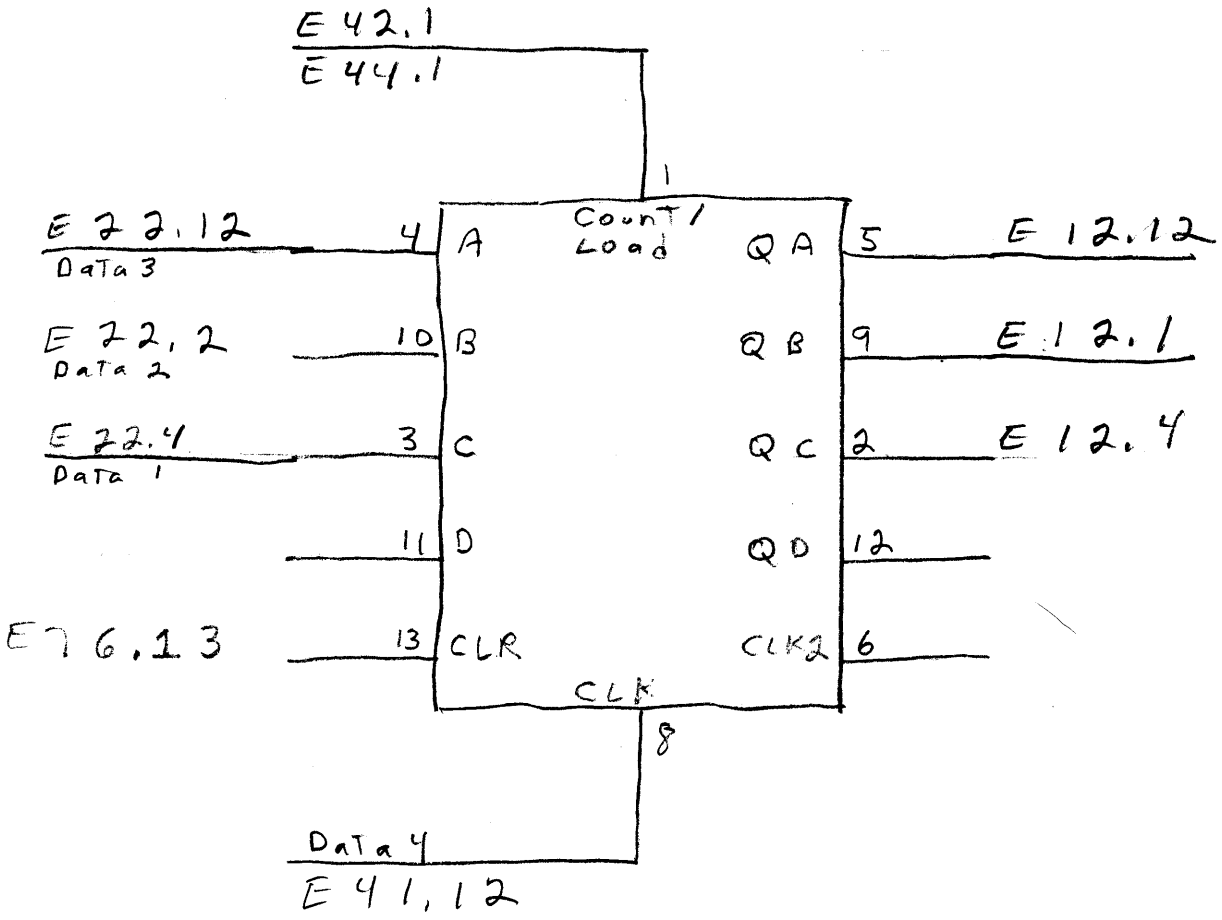


E36.10
Data 15
E36.3
Data 14
E36.6
Data 13
E36.13
Data 12
E76.

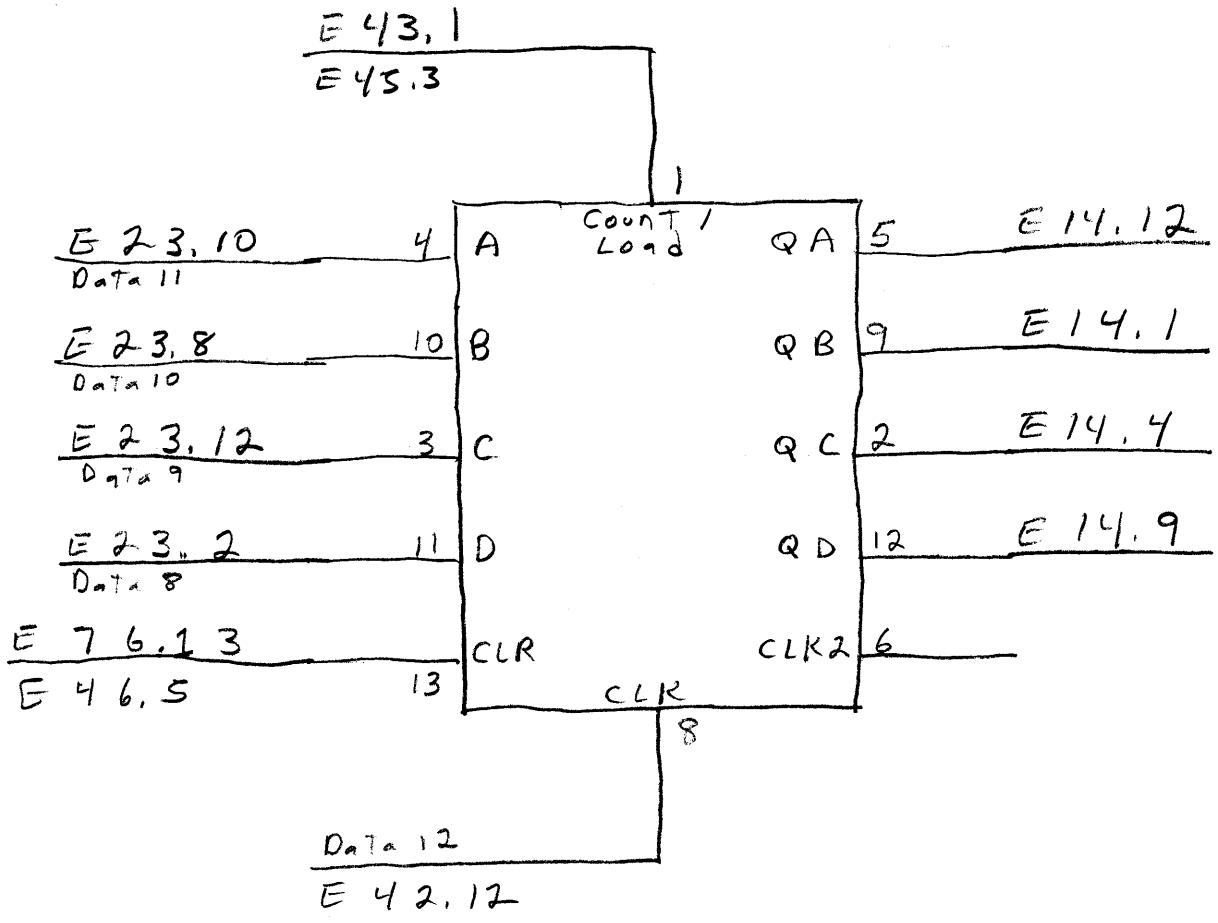
E42 8291 74197



E43 8291 74197 E44

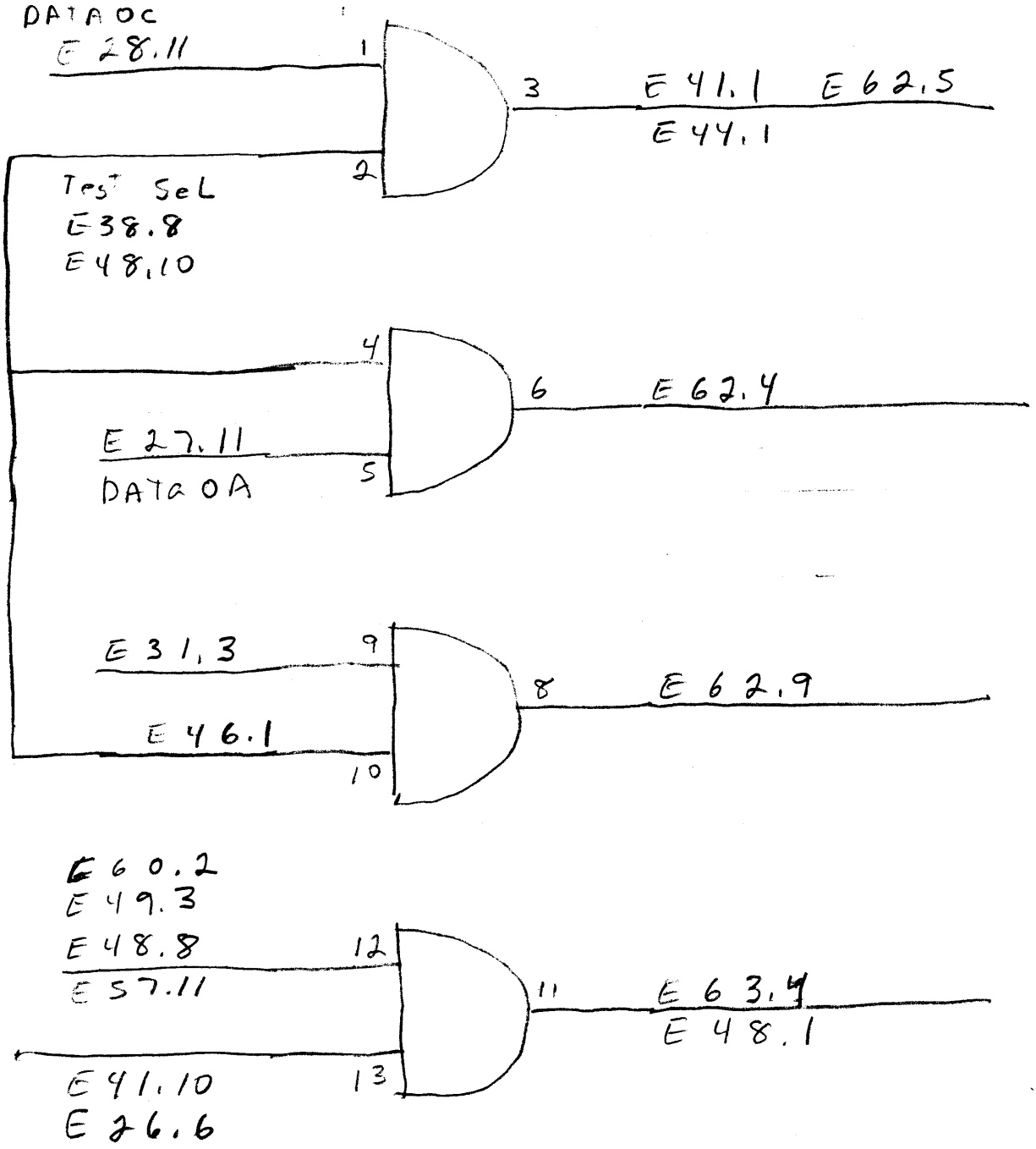


E44 8291 74197



E45 9002 7400 003

E46



Test S
E 45.

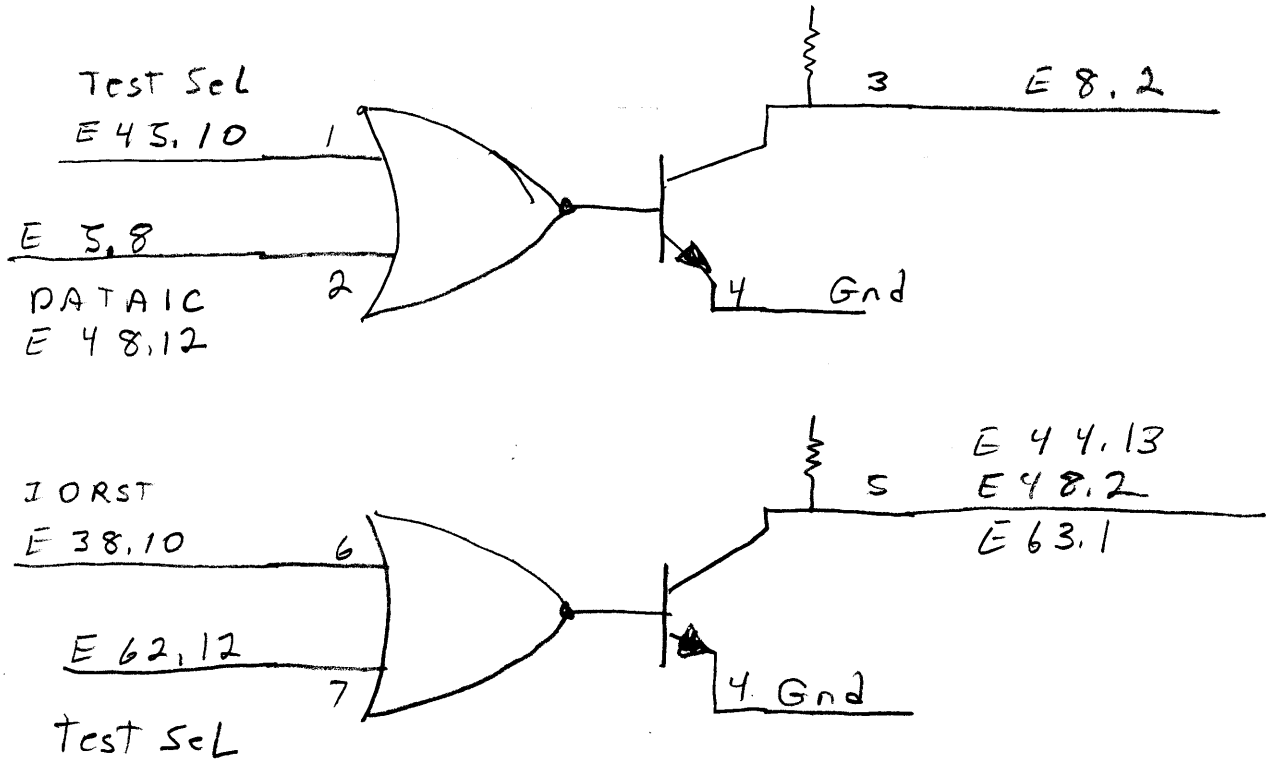
E 5.8
DATA C
E 48.12

IORST
E 38.10

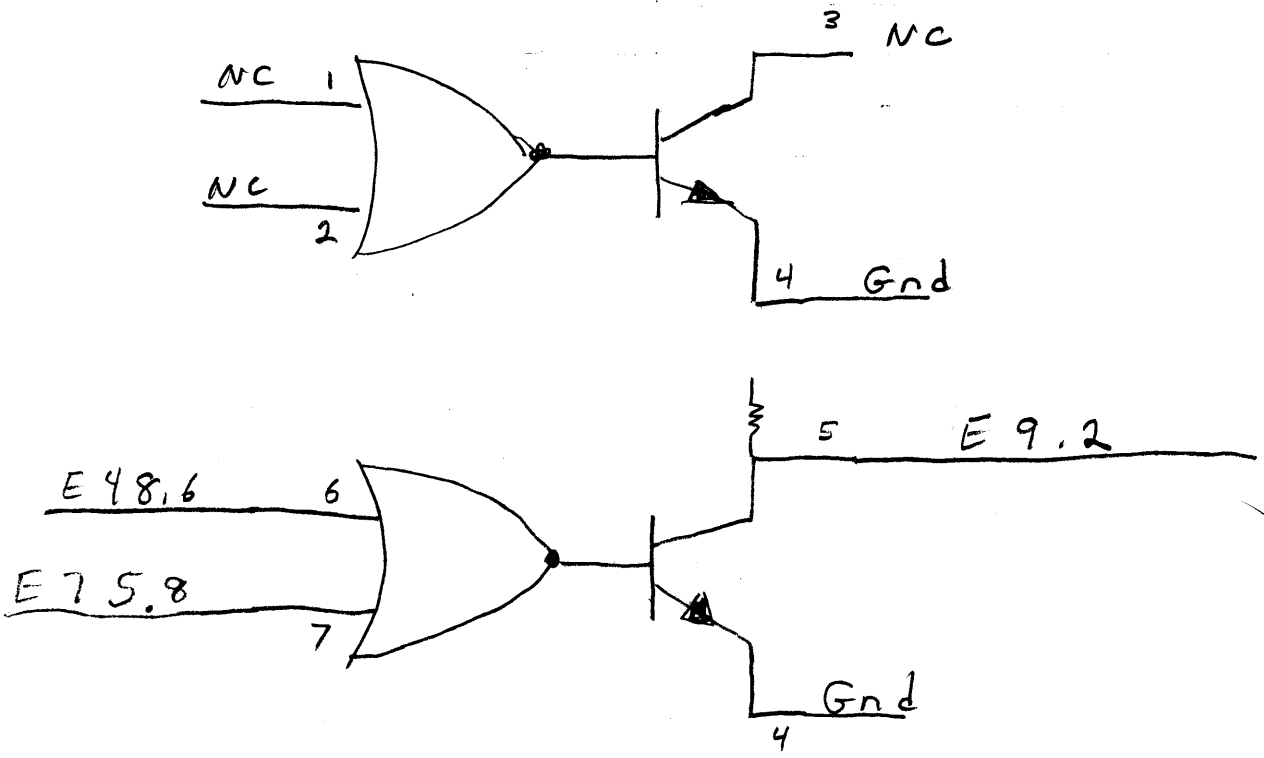
E 62.

Test S

03 E46 75451 117



E47 75451 117



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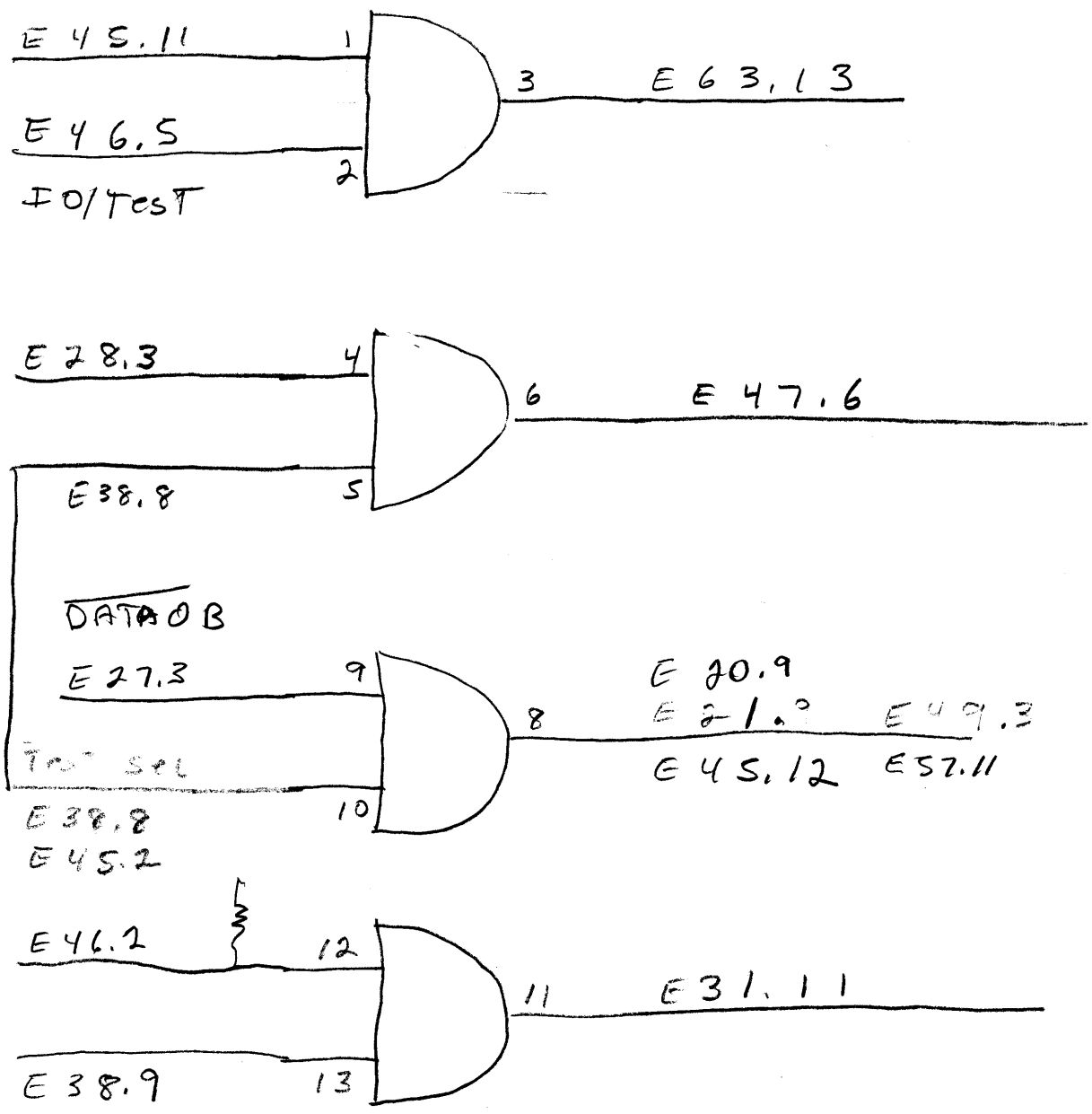
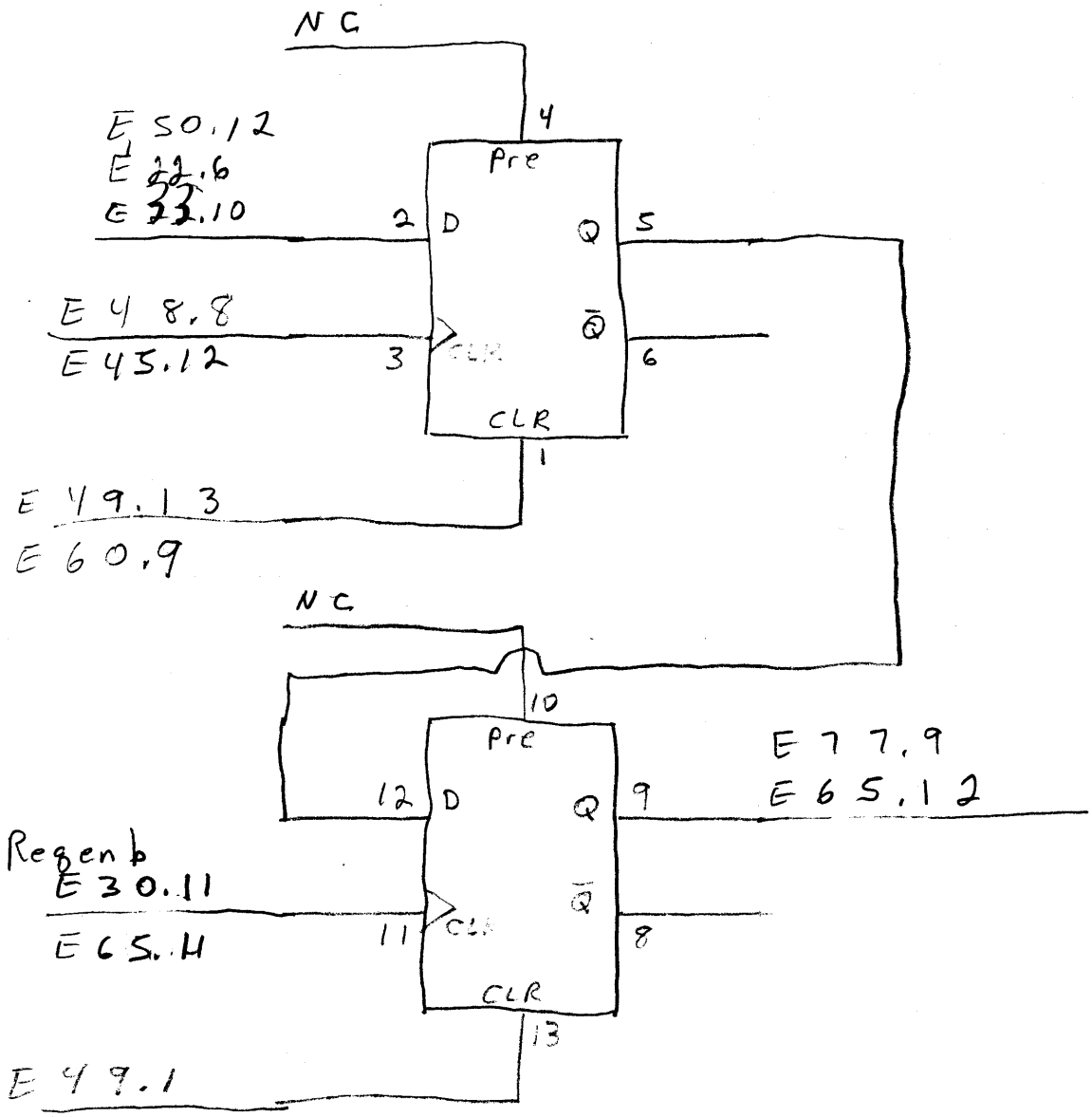
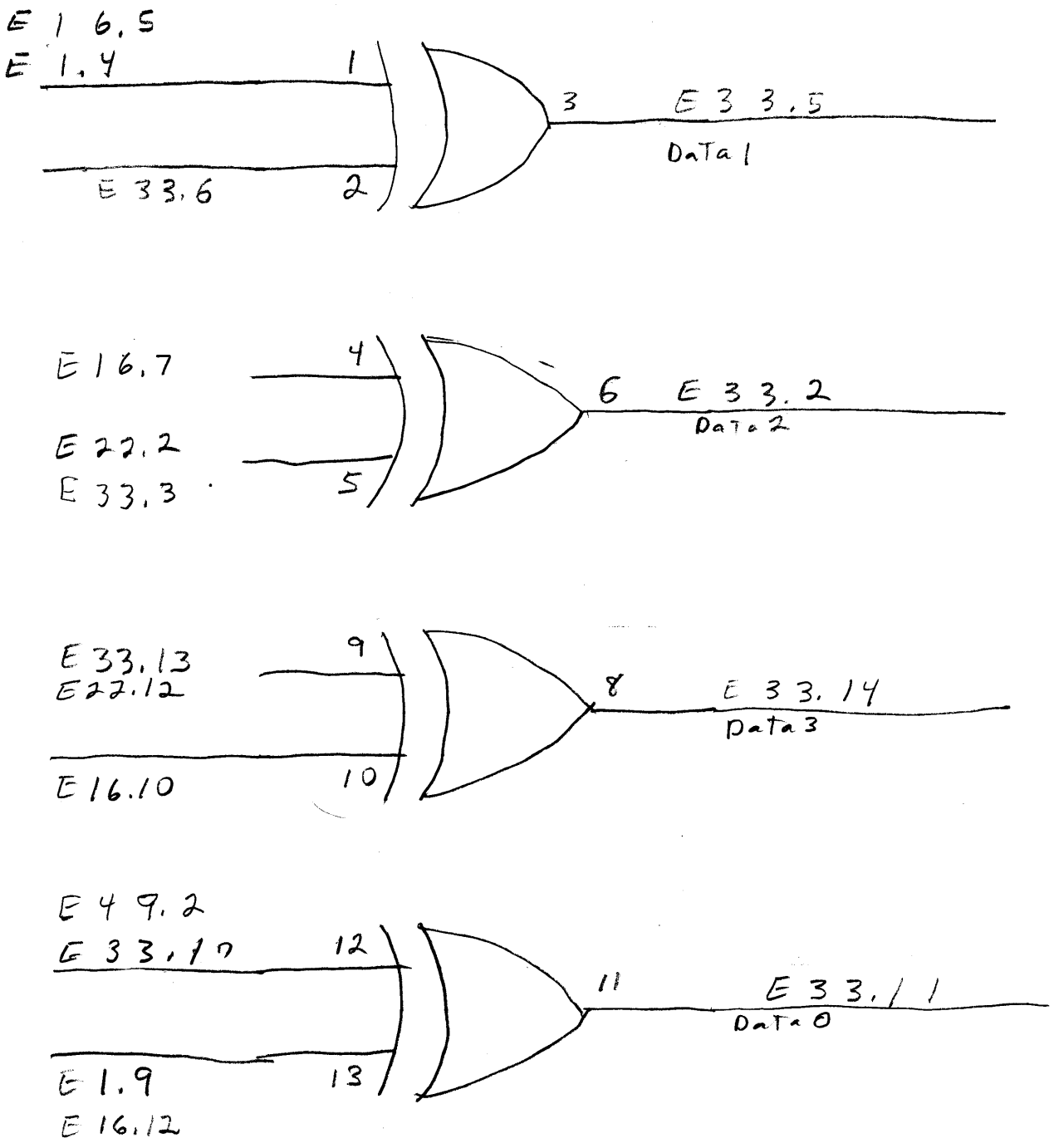


E49 8828 7474



E50 7486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E1.4
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E33.6
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3
E33.5
Data1
E16.7
4
E22.2
E33.3
5
6
E33.2
Data2
E33.13
E22.12
9
E16.10
10
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E33.14
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E49.2
E33.10
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E1.9
E16.12
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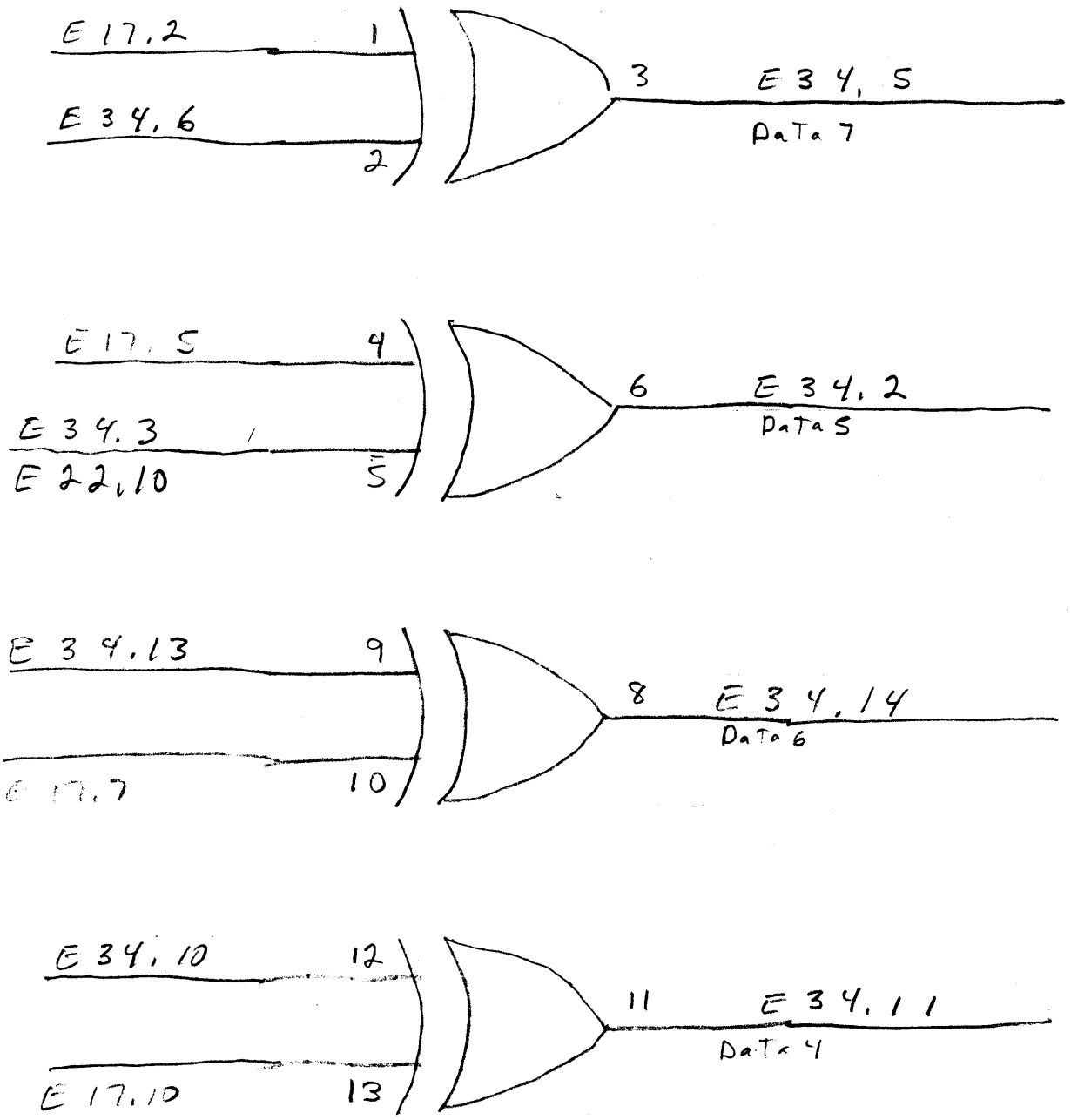
E33.11
Data0

E51 7486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E34.5
DaTa 7
E17.5
4
E34.3
E22,10
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E34.2
DaTa 5
E34.13
9
E17.7
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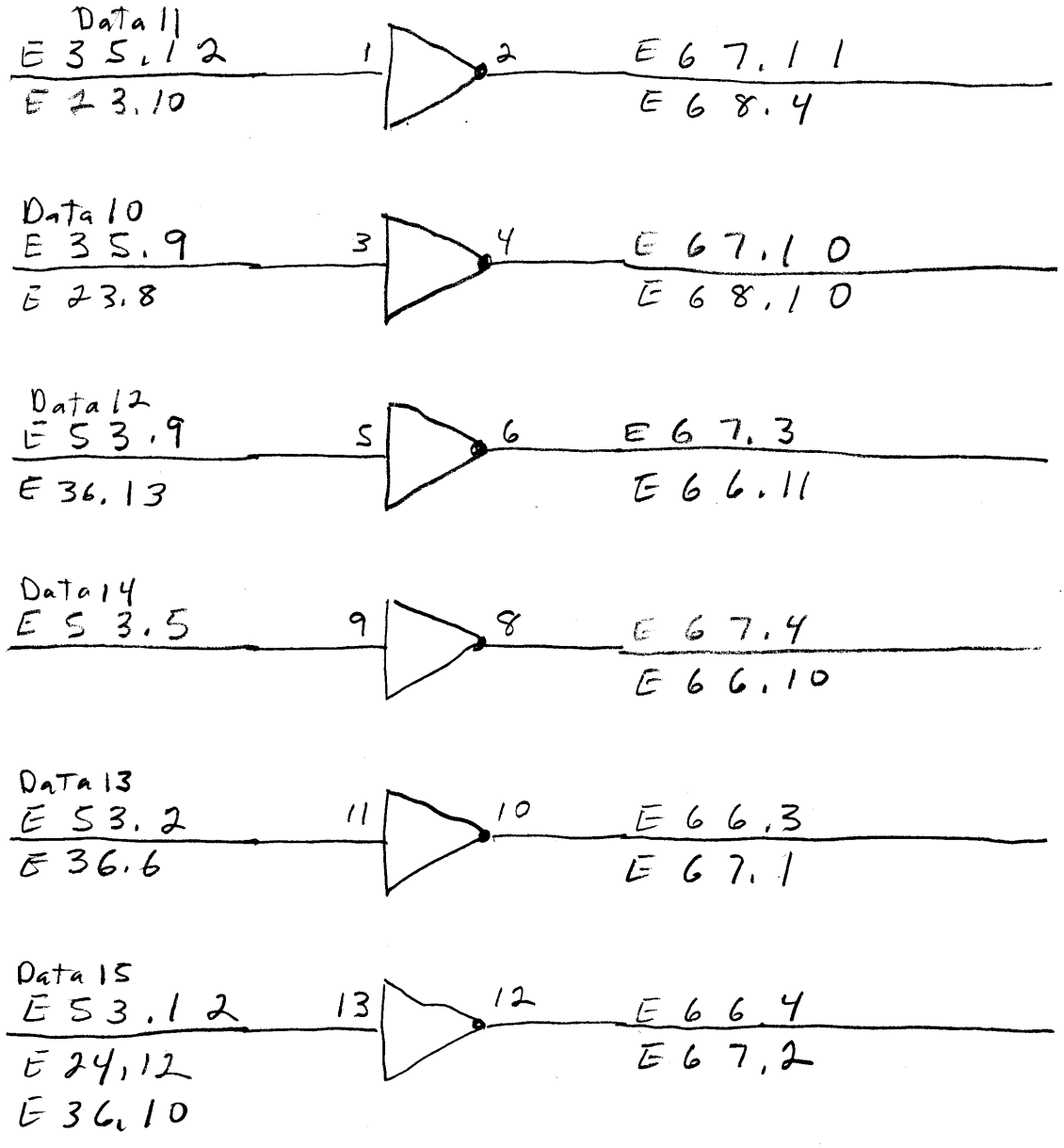
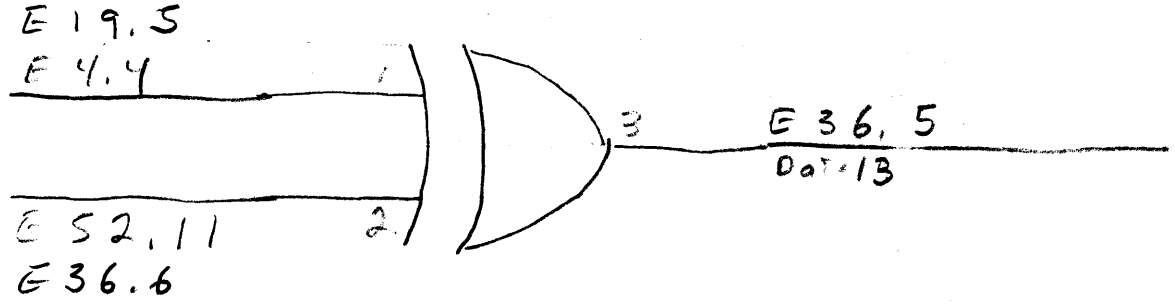
DaTa 6
E34.10
12
E17.10
13
11
E34.11
DaTa 4

E52 8H90 74H04



E53 7486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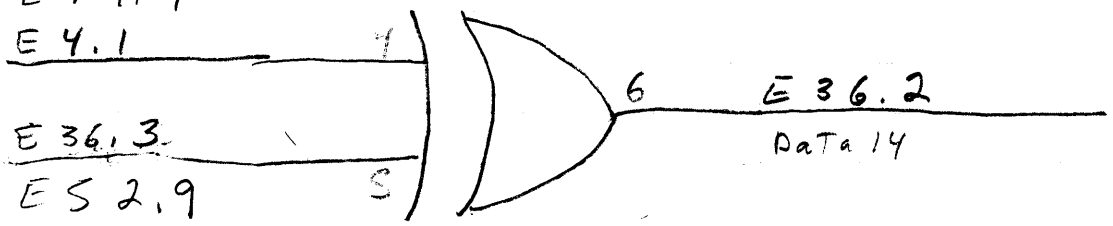
3
E36.5
Data 13
E52.11
2
E36.6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E36.2
Data 14
E36.3
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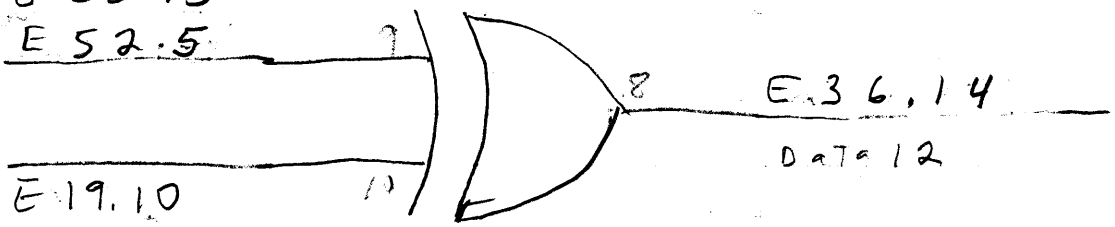
E52.9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Data 12
E19.10
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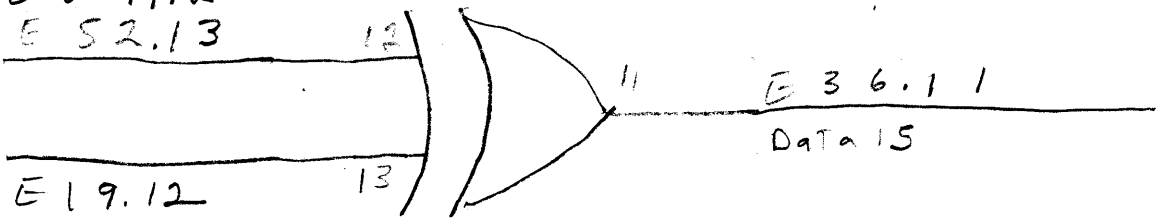
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E19.12
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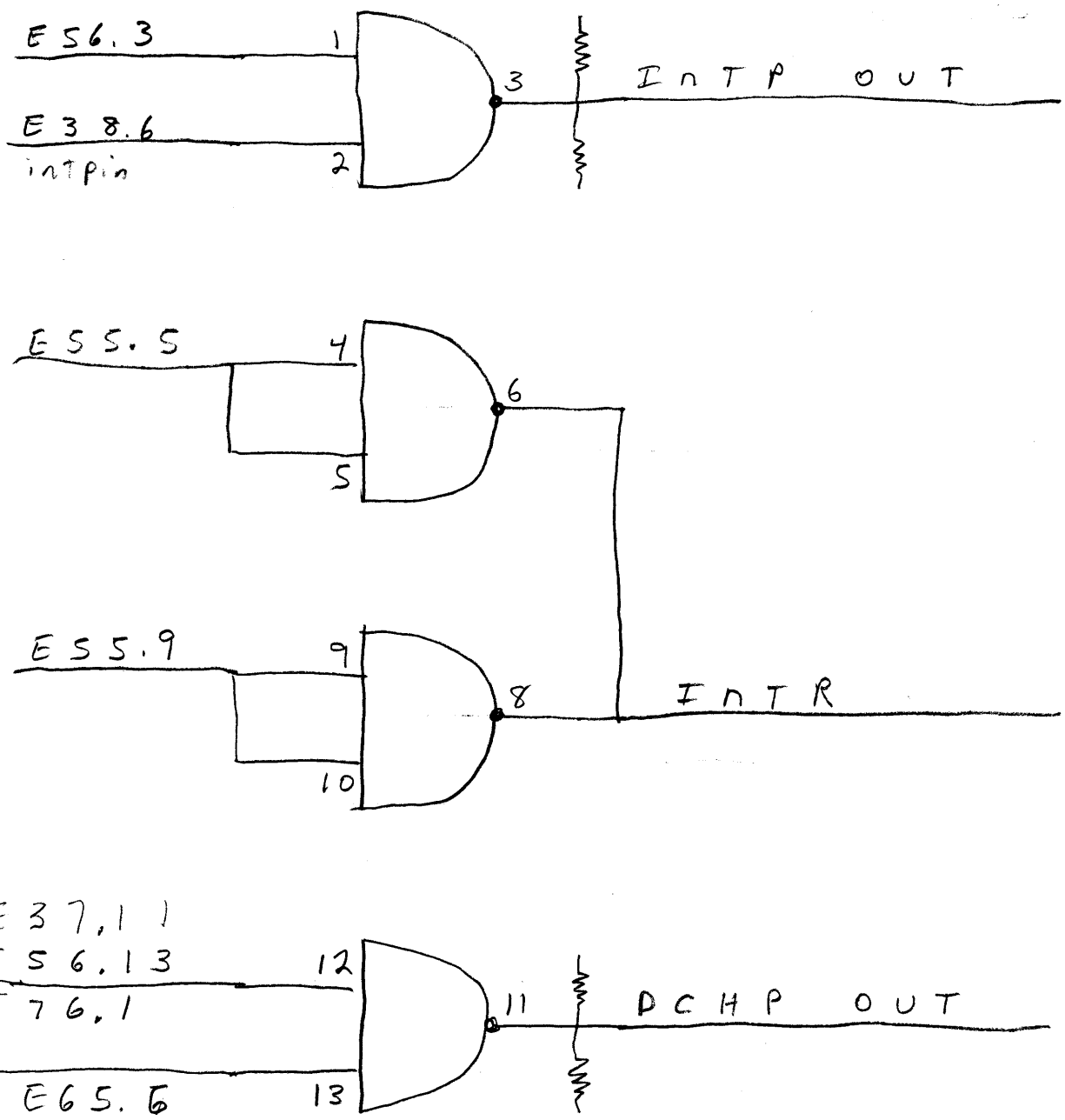
E4.12

E54 7438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E55.9
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IntR
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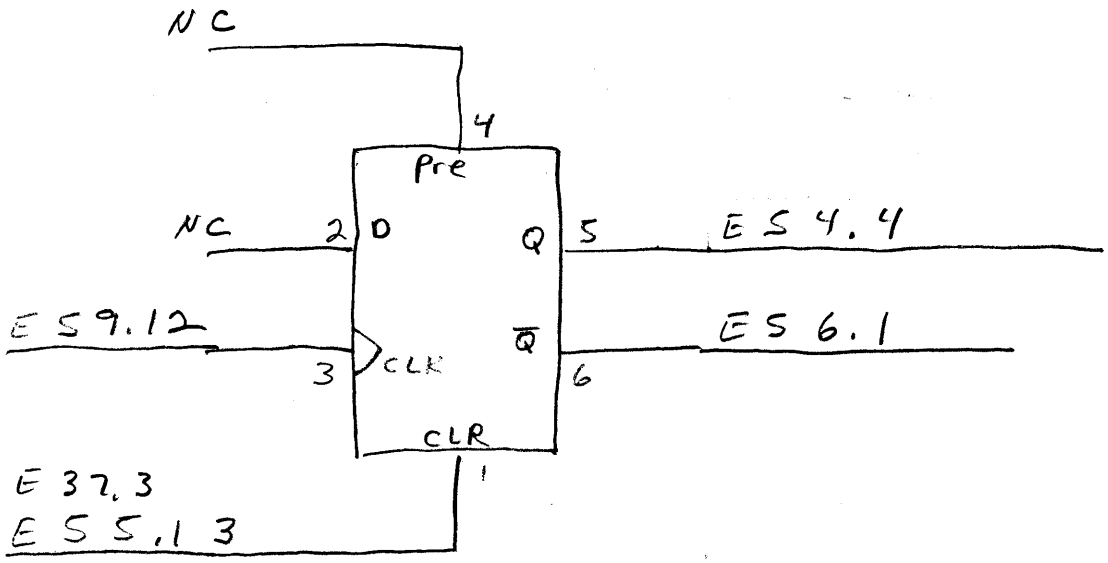
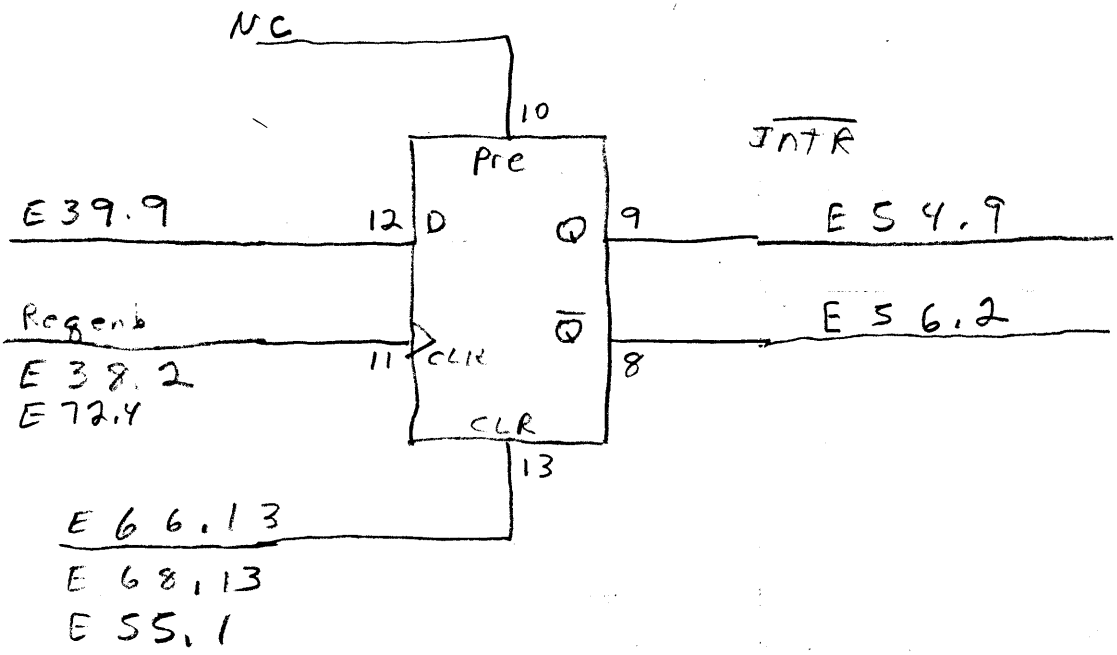
E56.13
E76.1
E65.6
12
13
11
DCHP OUT

E55 8828 7474





E56
ESS
ESS
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E75
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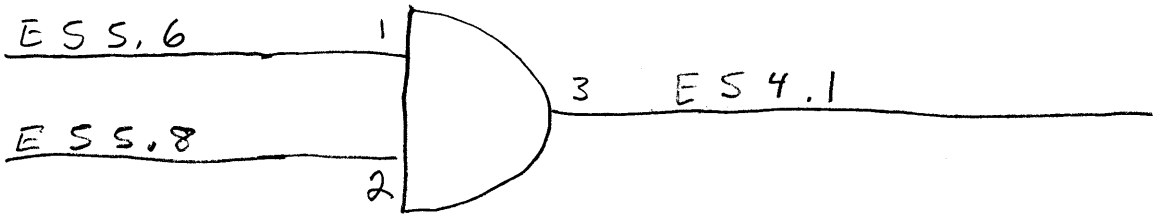
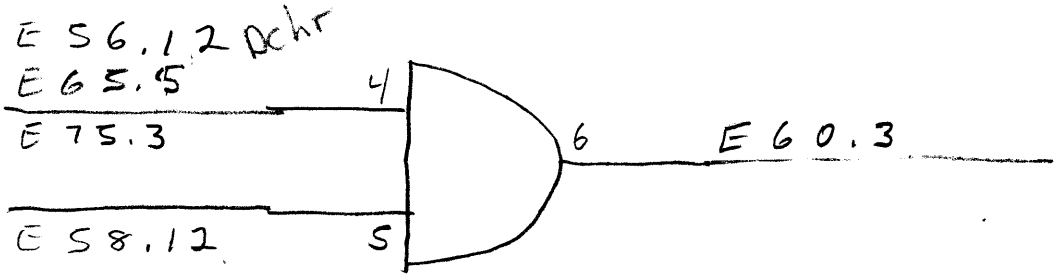
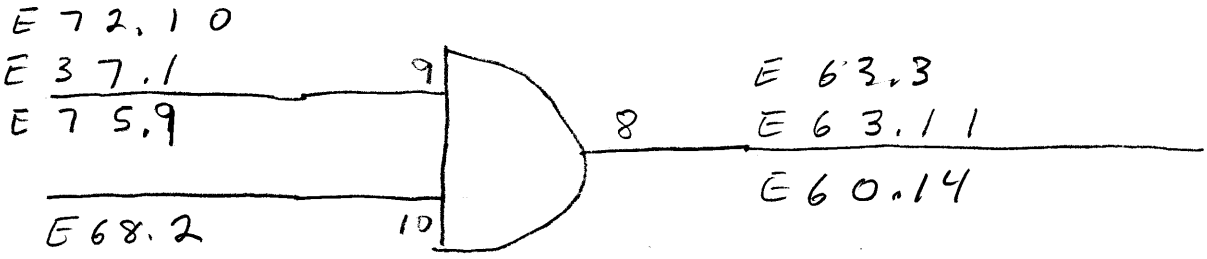
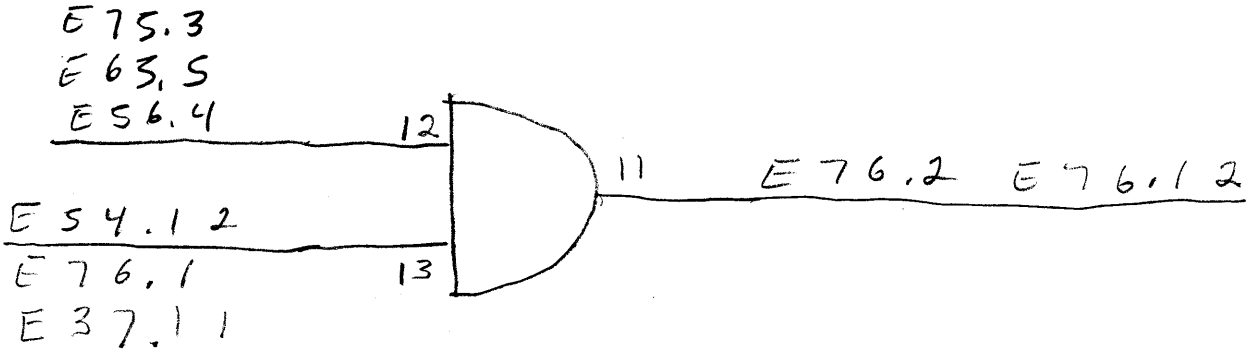
E63.
ES6
E54.
E76.
E37.

E56 3001 7408









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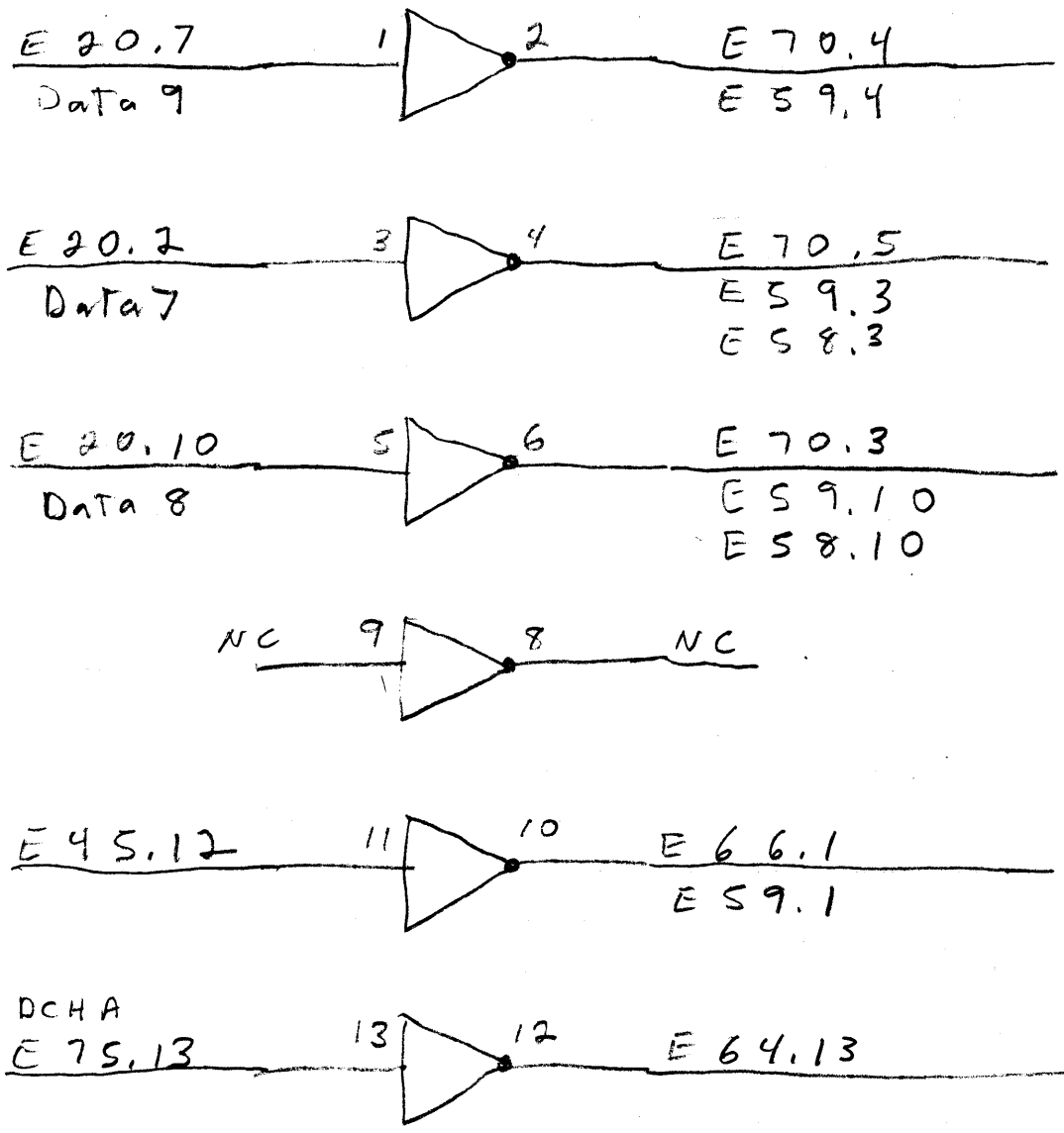
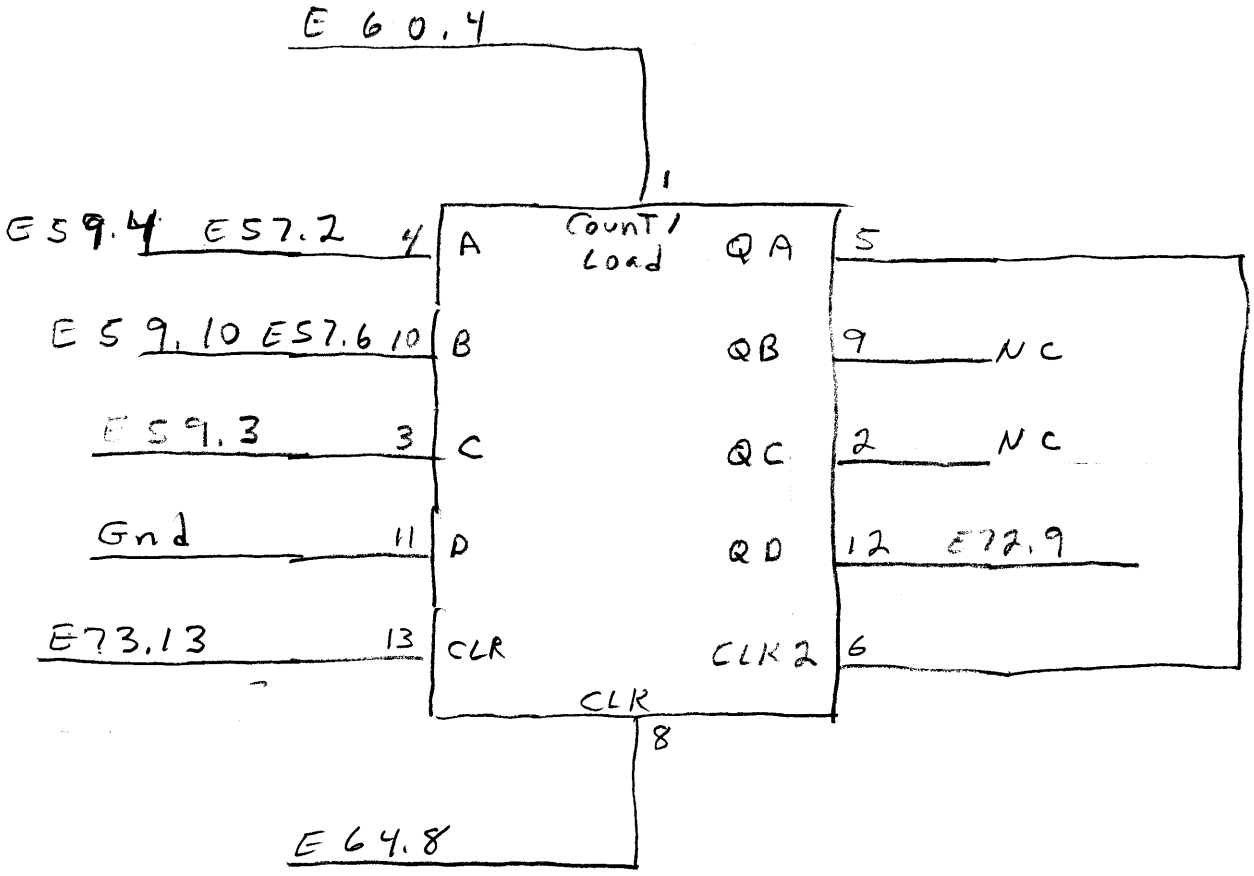
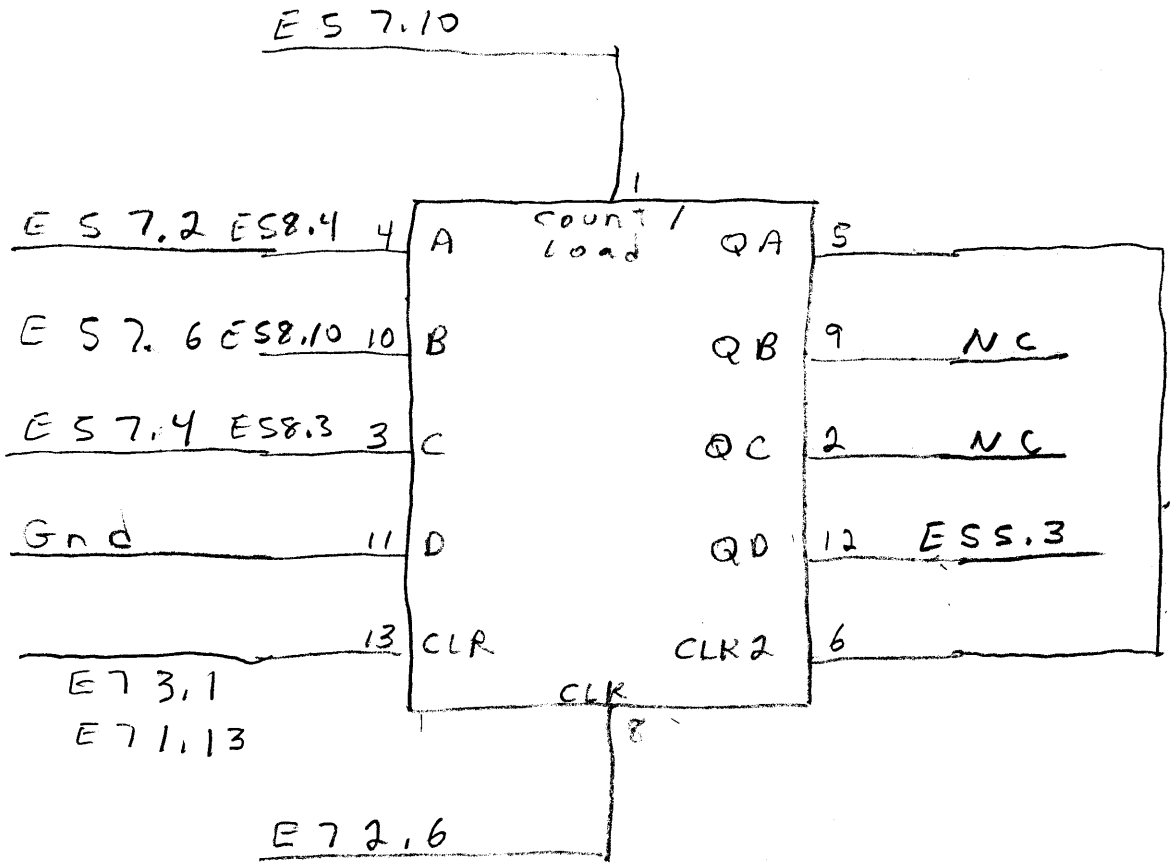
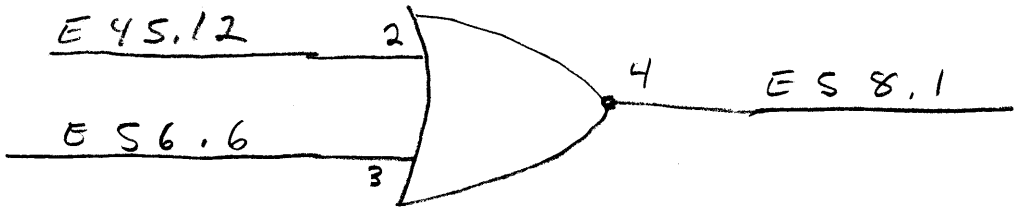


E58 8291 74197



E59 8291 74197

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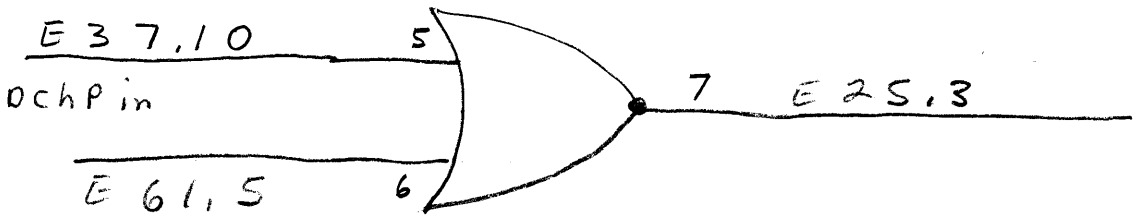
E58.1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DchP in
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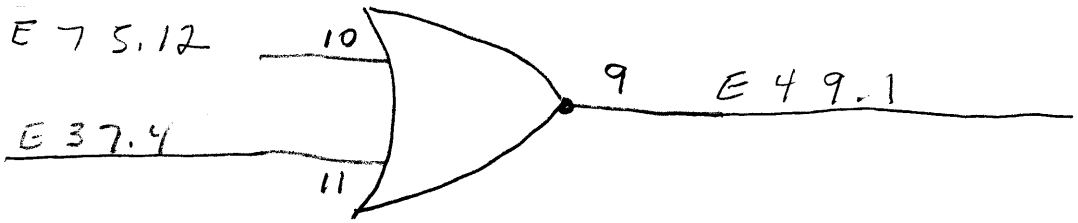
E38.12 (INTa)
7
E25.3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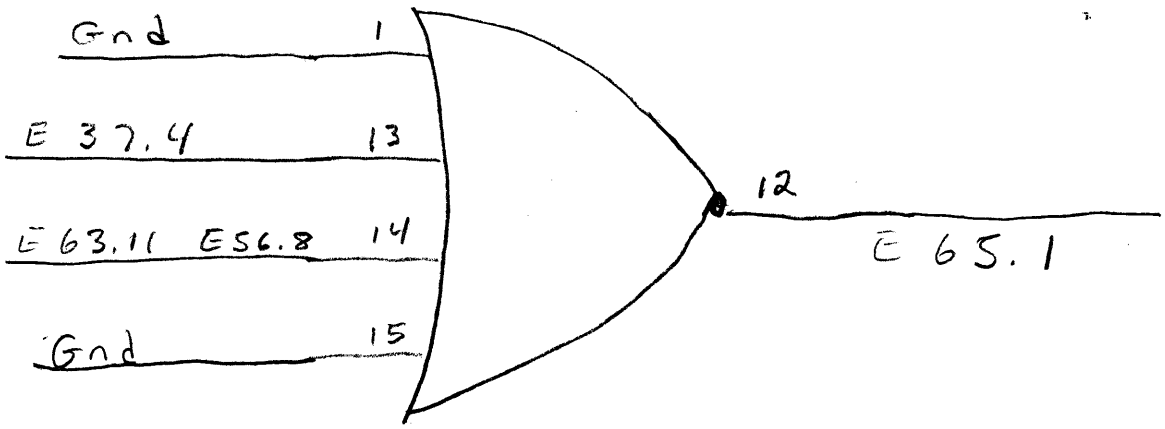
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E63.11 E56.8
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Gnd
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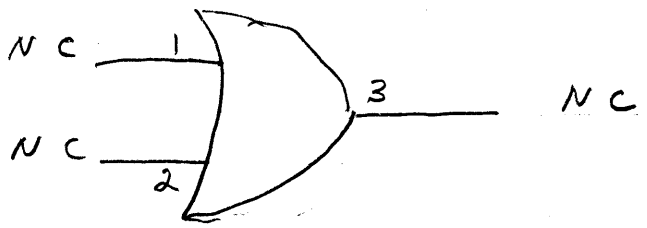
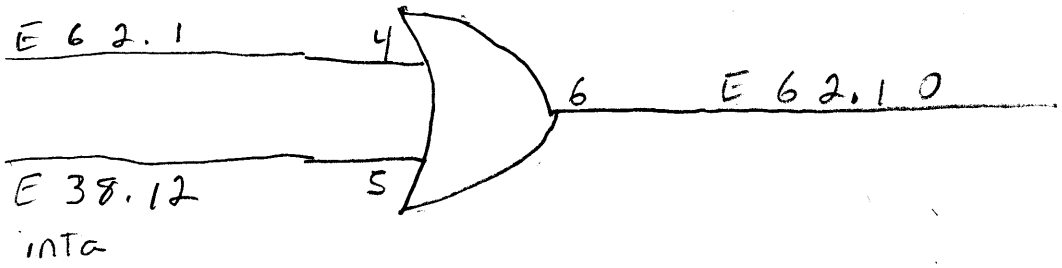
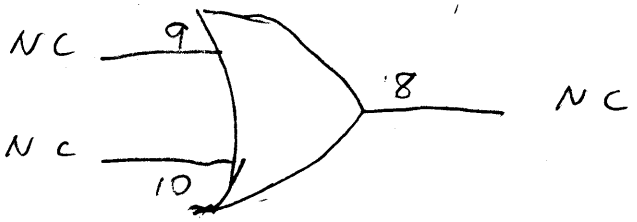
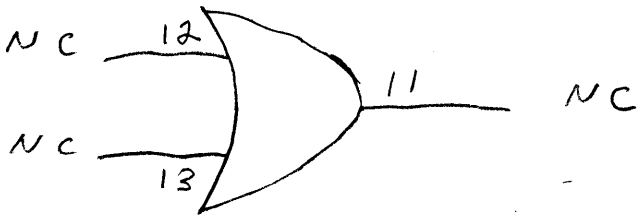
12
E65.1

E61 3003 7432









E6

E7
E3
E2

E43
E4

E3
CL

E6

E43
Data

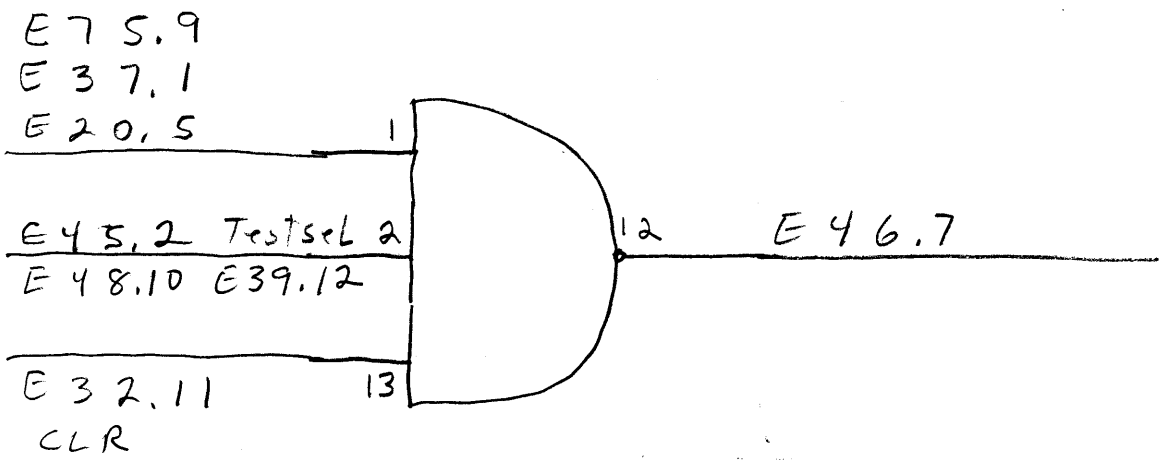
E4
DA

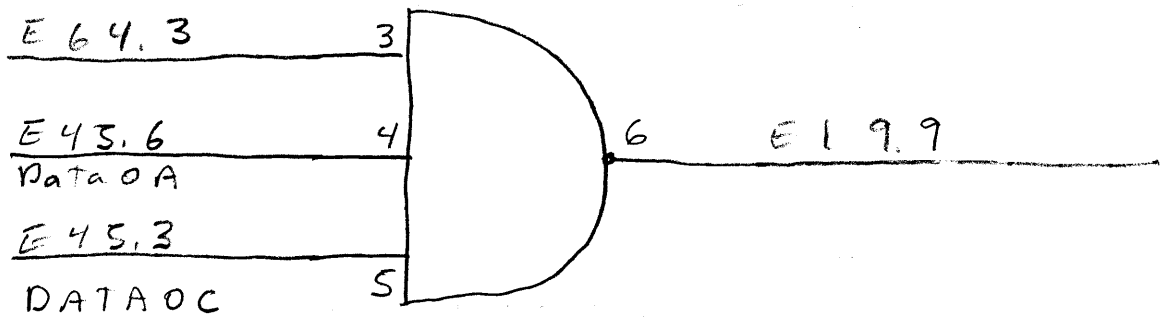
E4

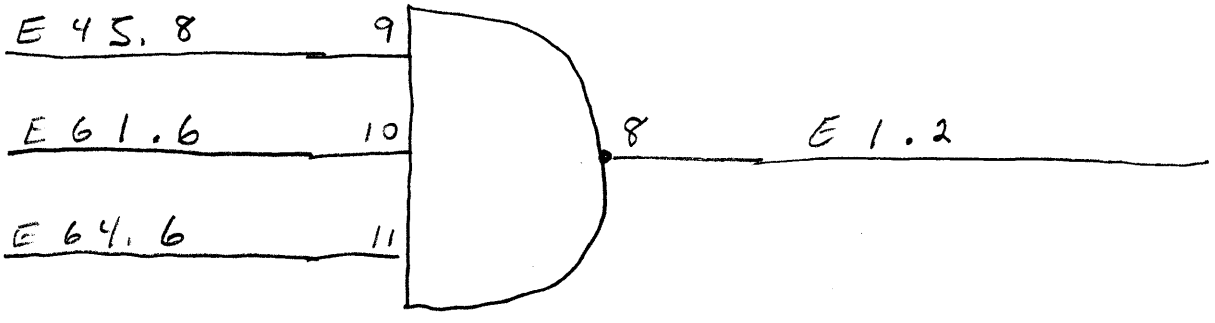
E6

E6

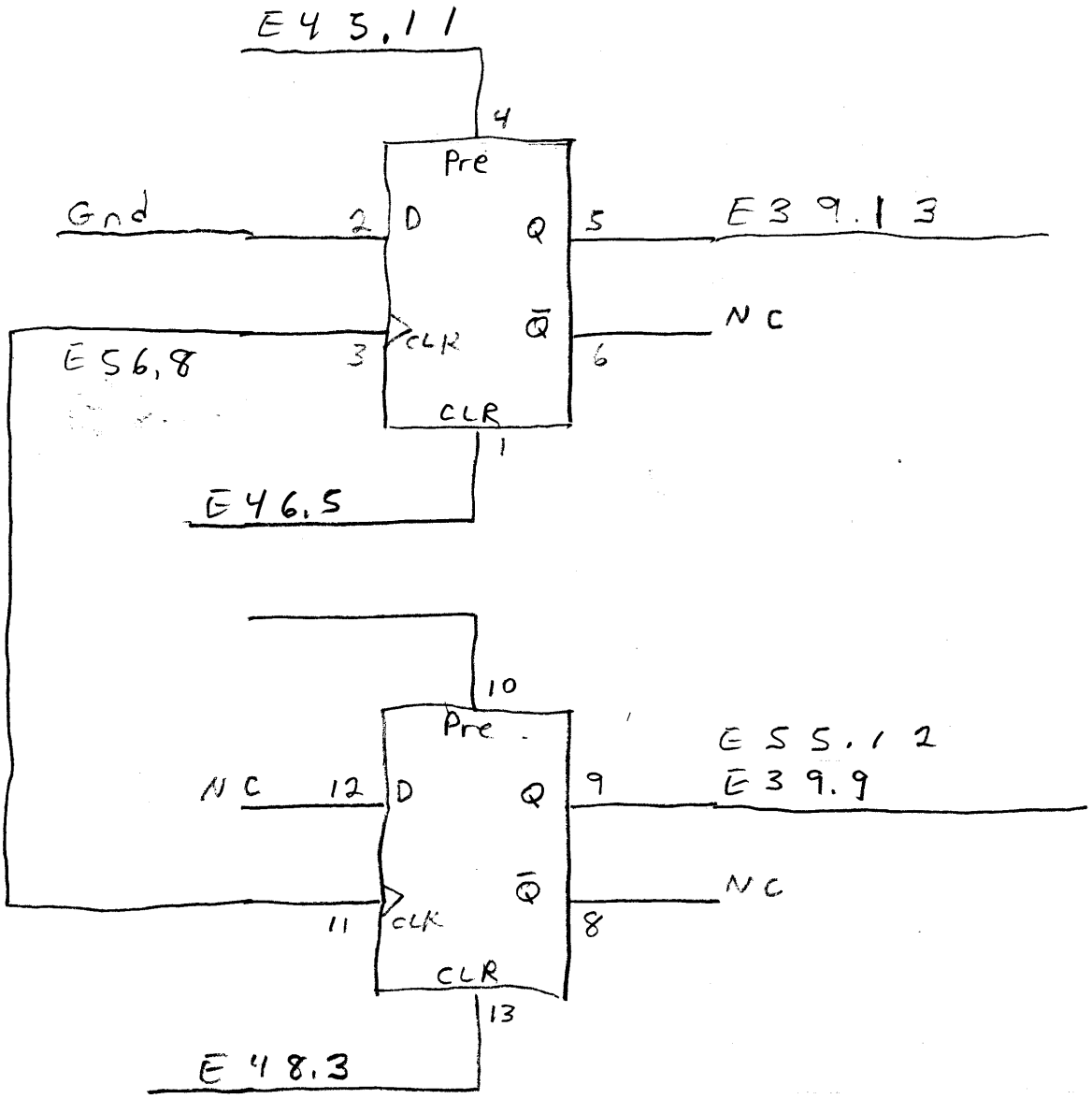
E62 9003 7410 004







E63 8228 7474



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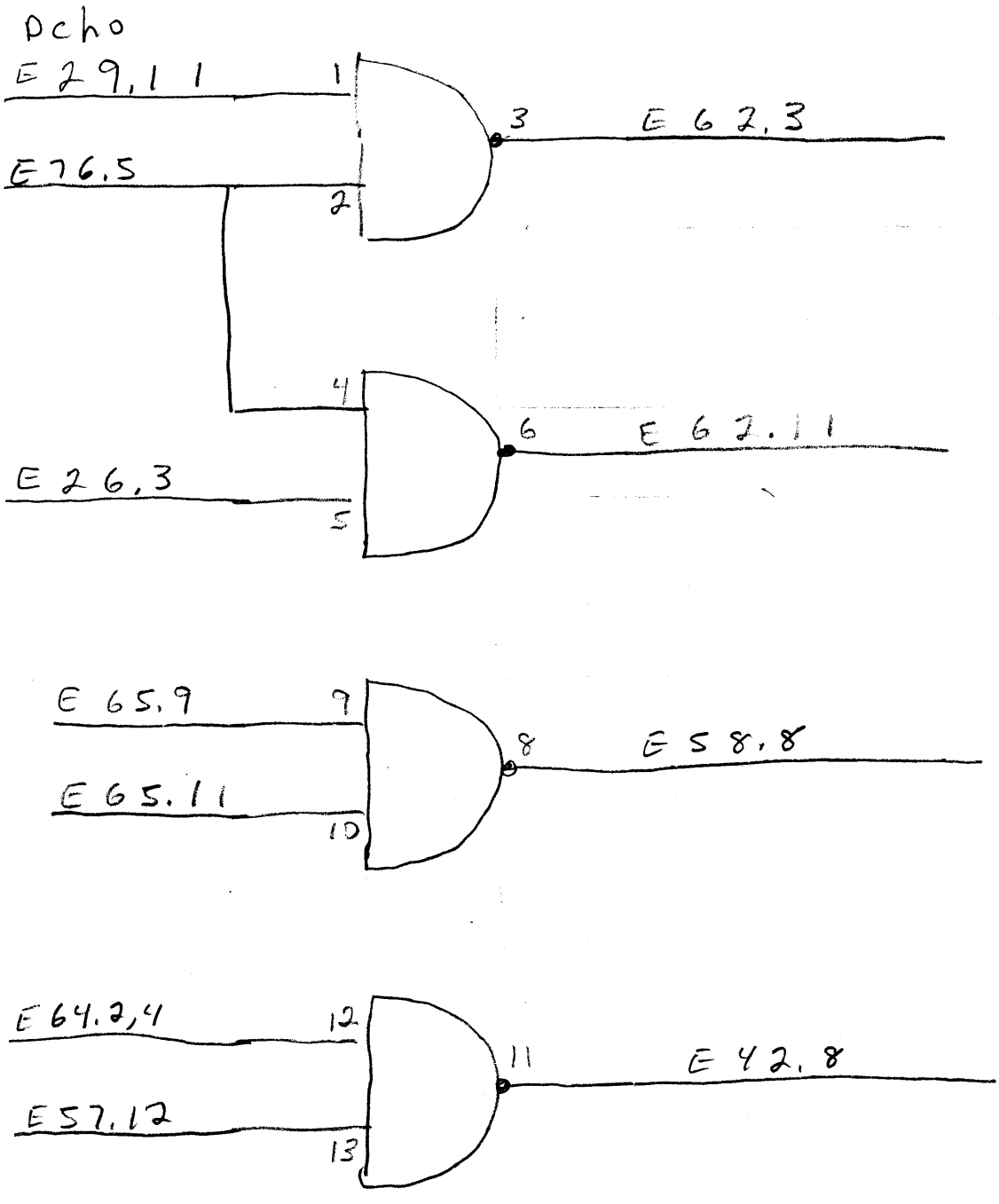
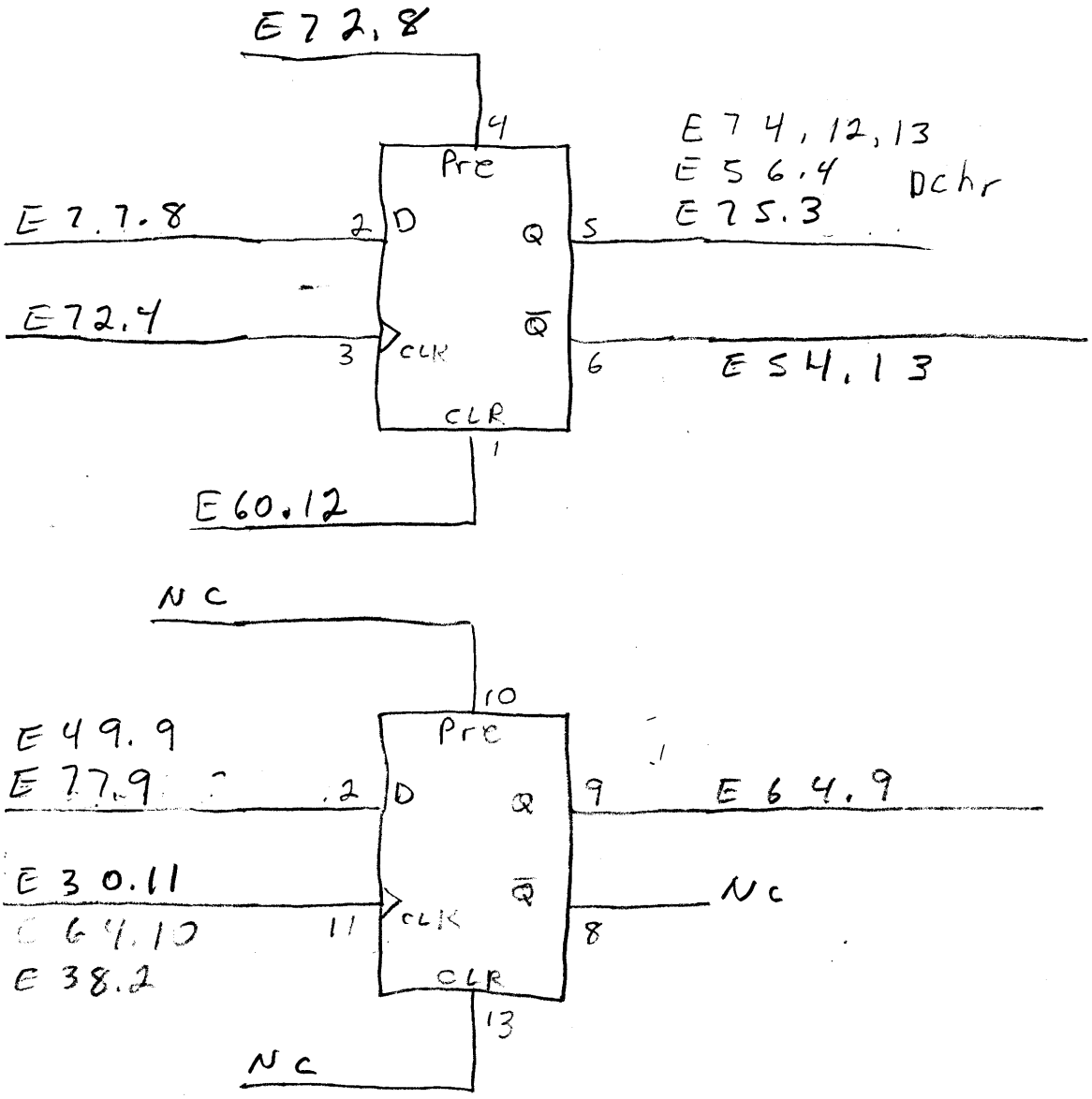


E65 8828 7474



E6

E6
E5

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E5

E5

E55
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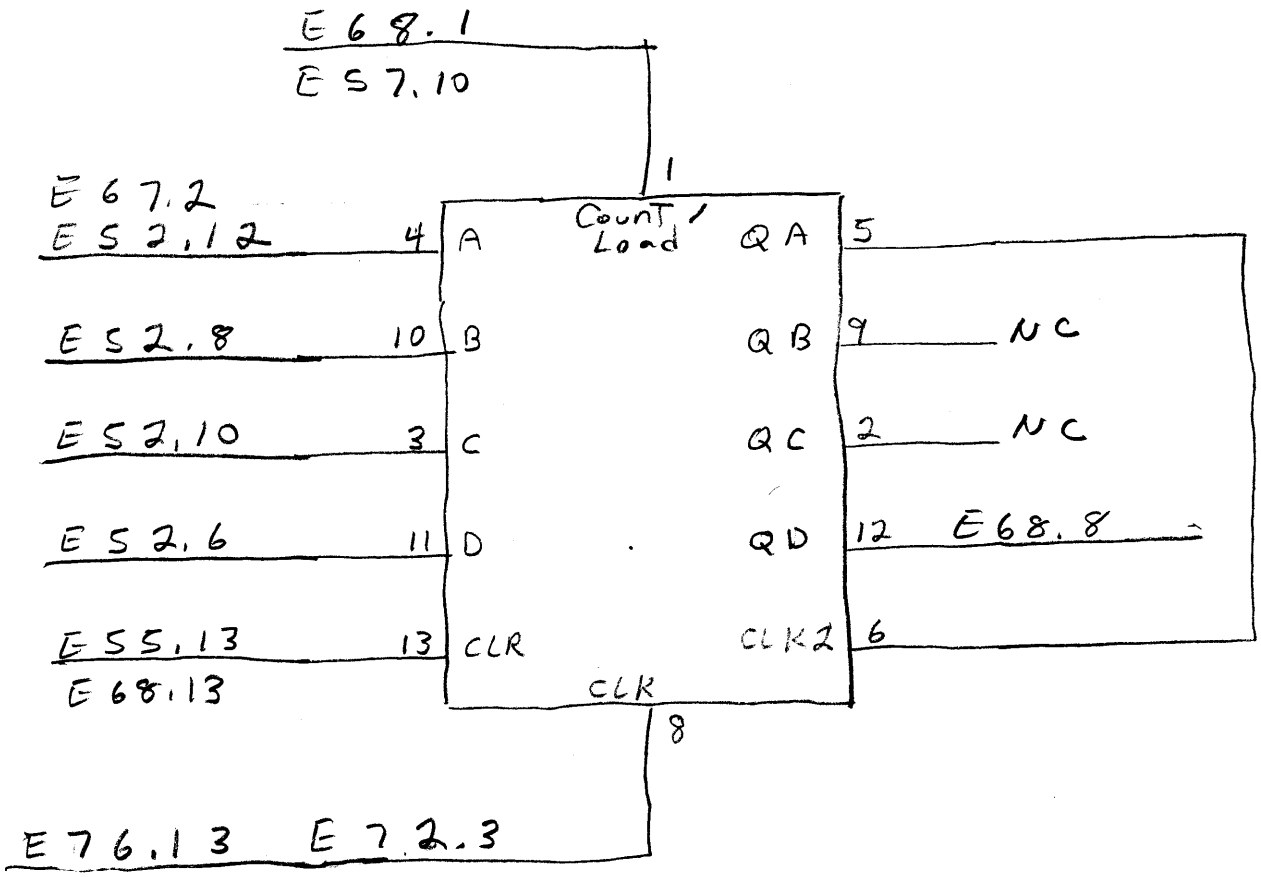
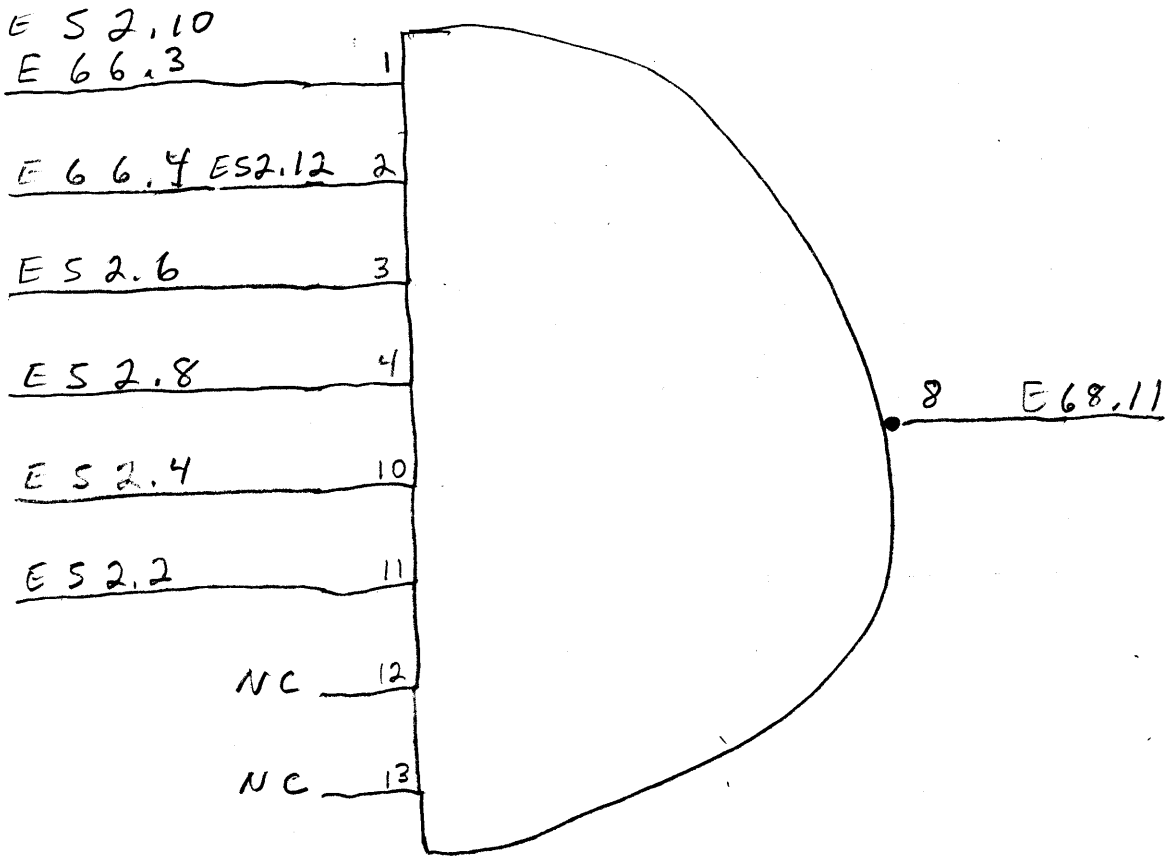
E76.

E66 8291 74197

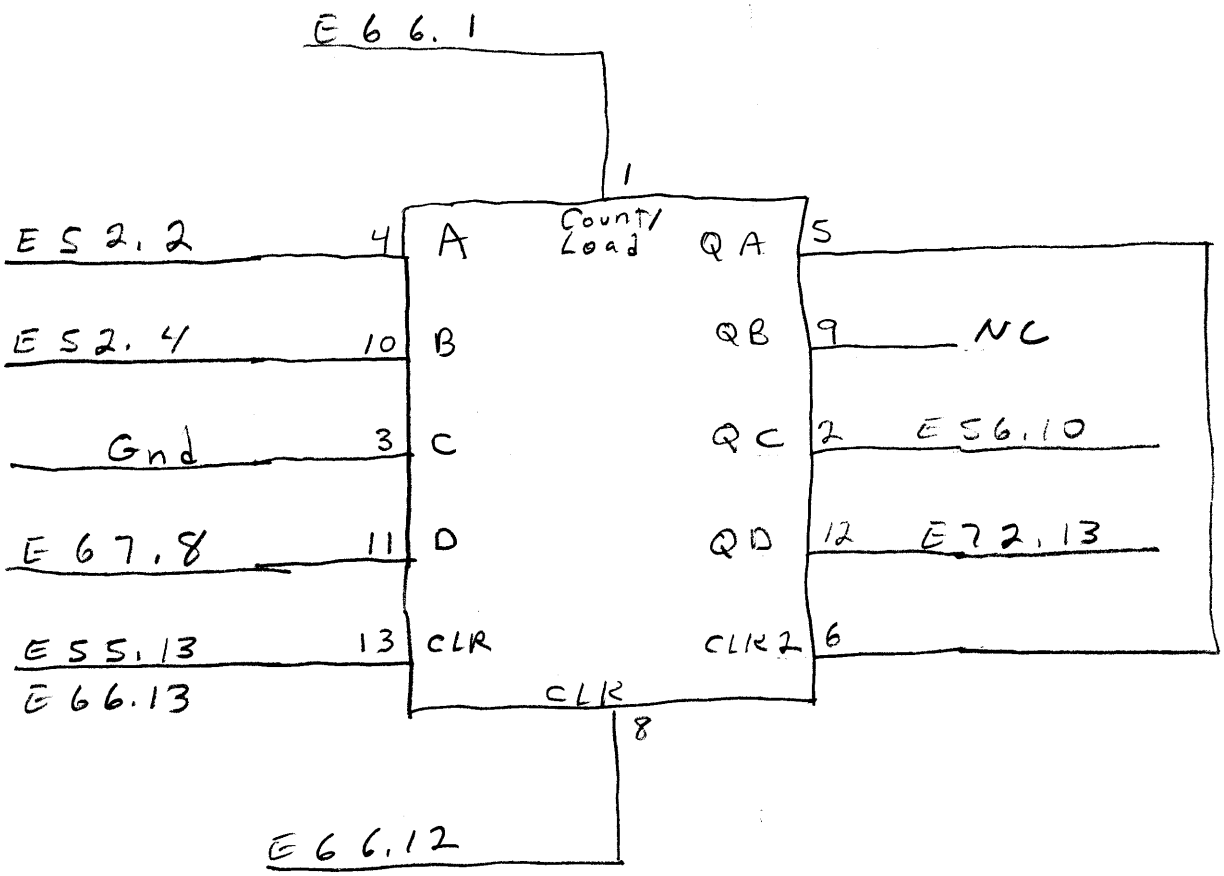


E67 9007 007

E68

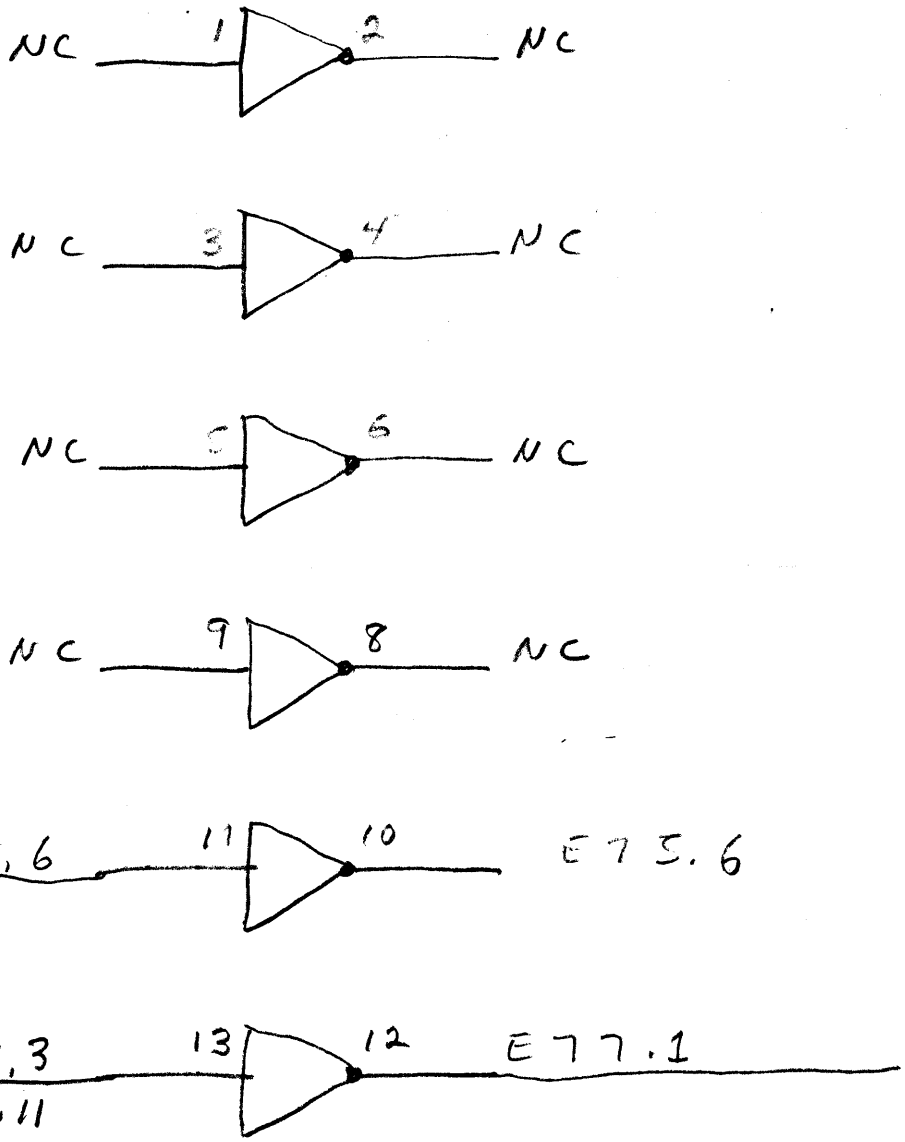


E68 8291 74197

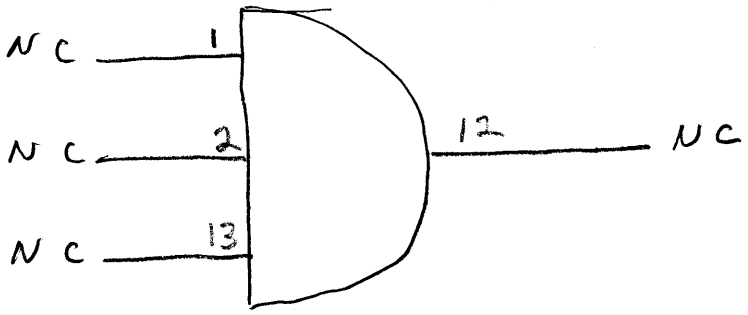


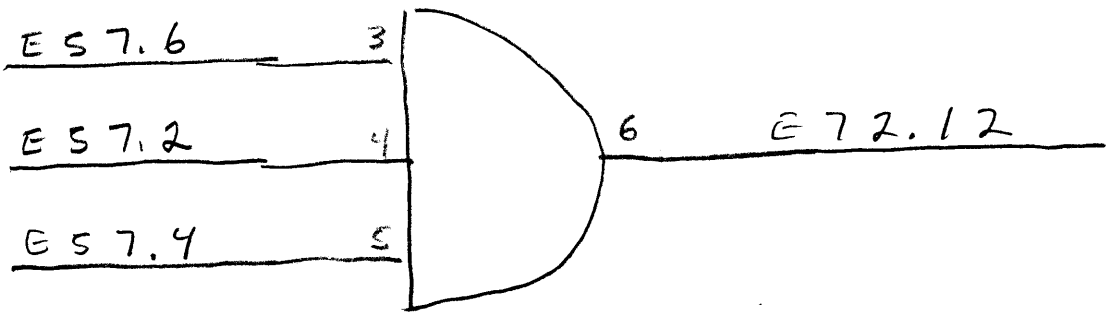
E69 2 of 10

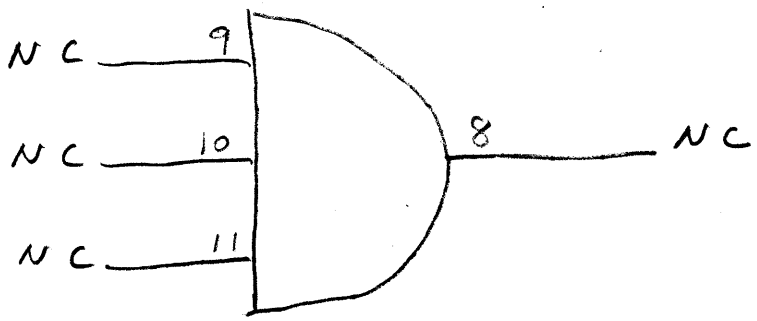
E70



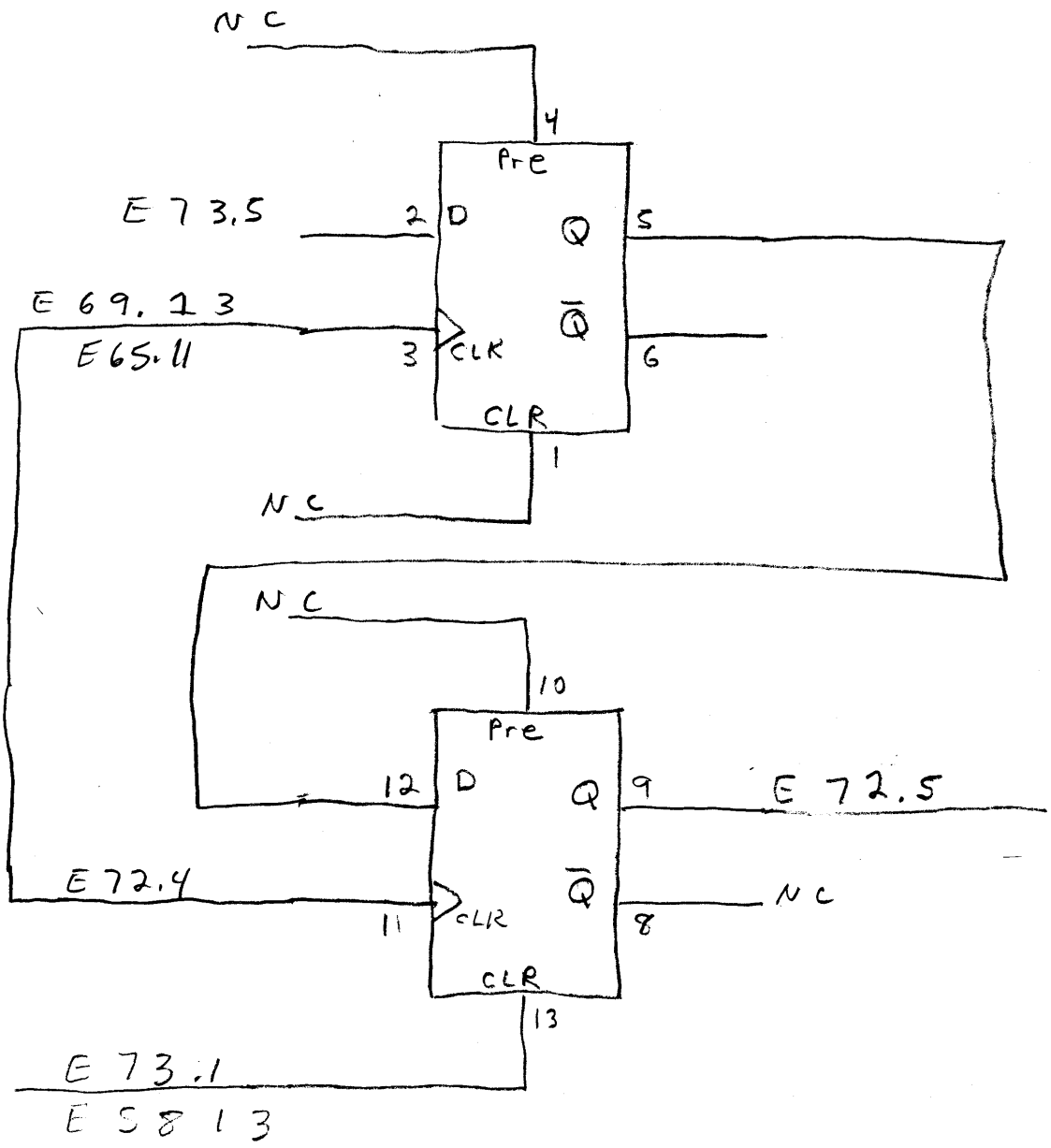
E70 74H11







E71 8828 7474



E7

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E71.
E55.
E65.

E71

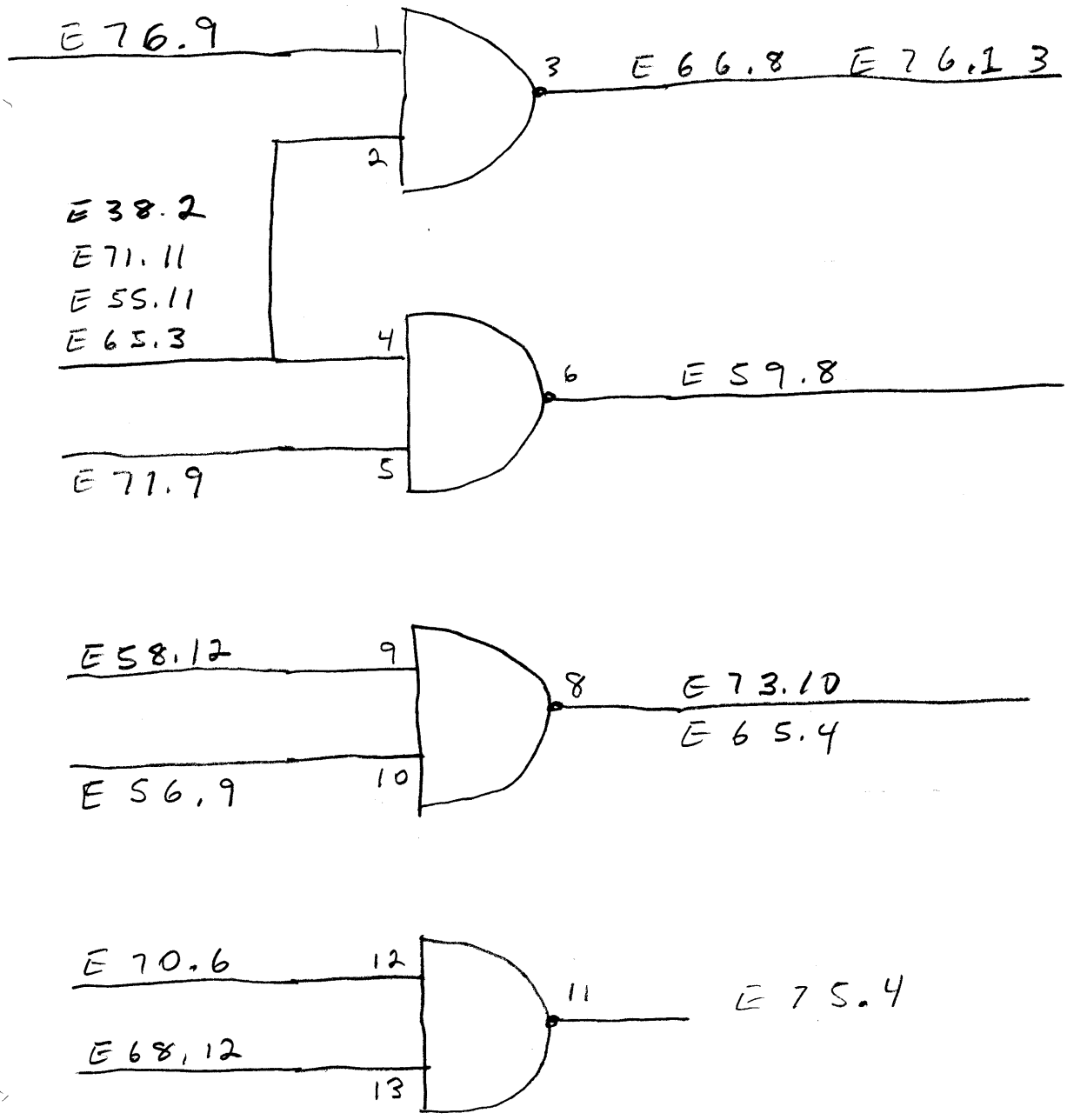
E58

E5

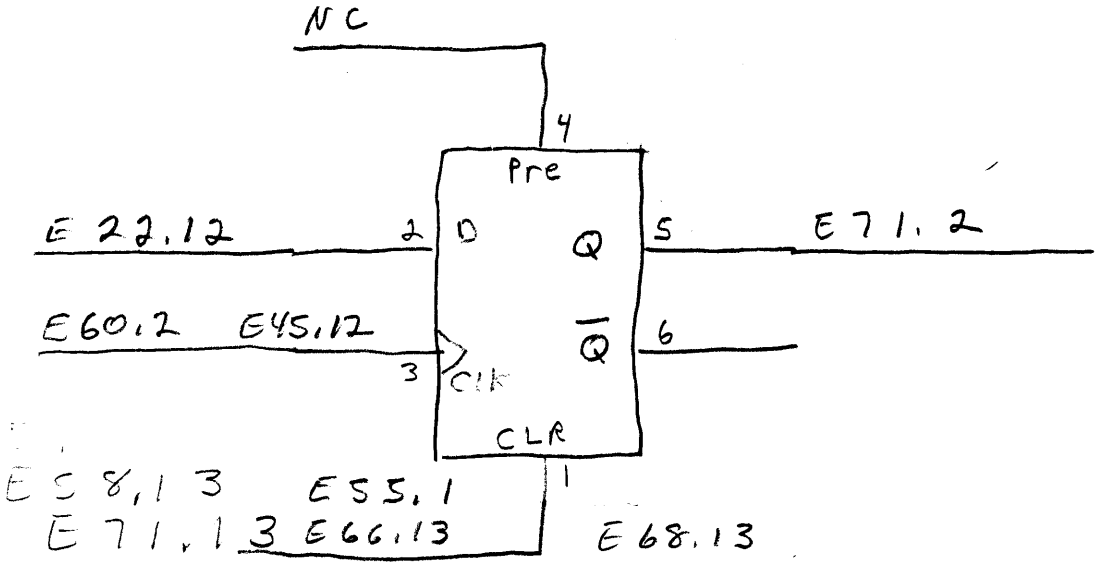
E70

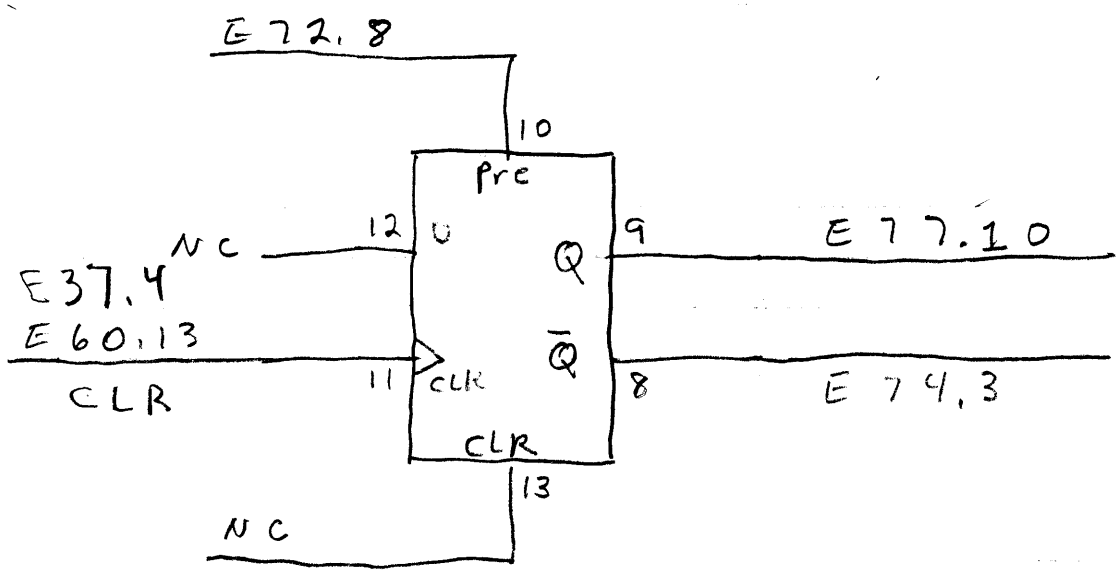
E68

E72 9002 7400 003

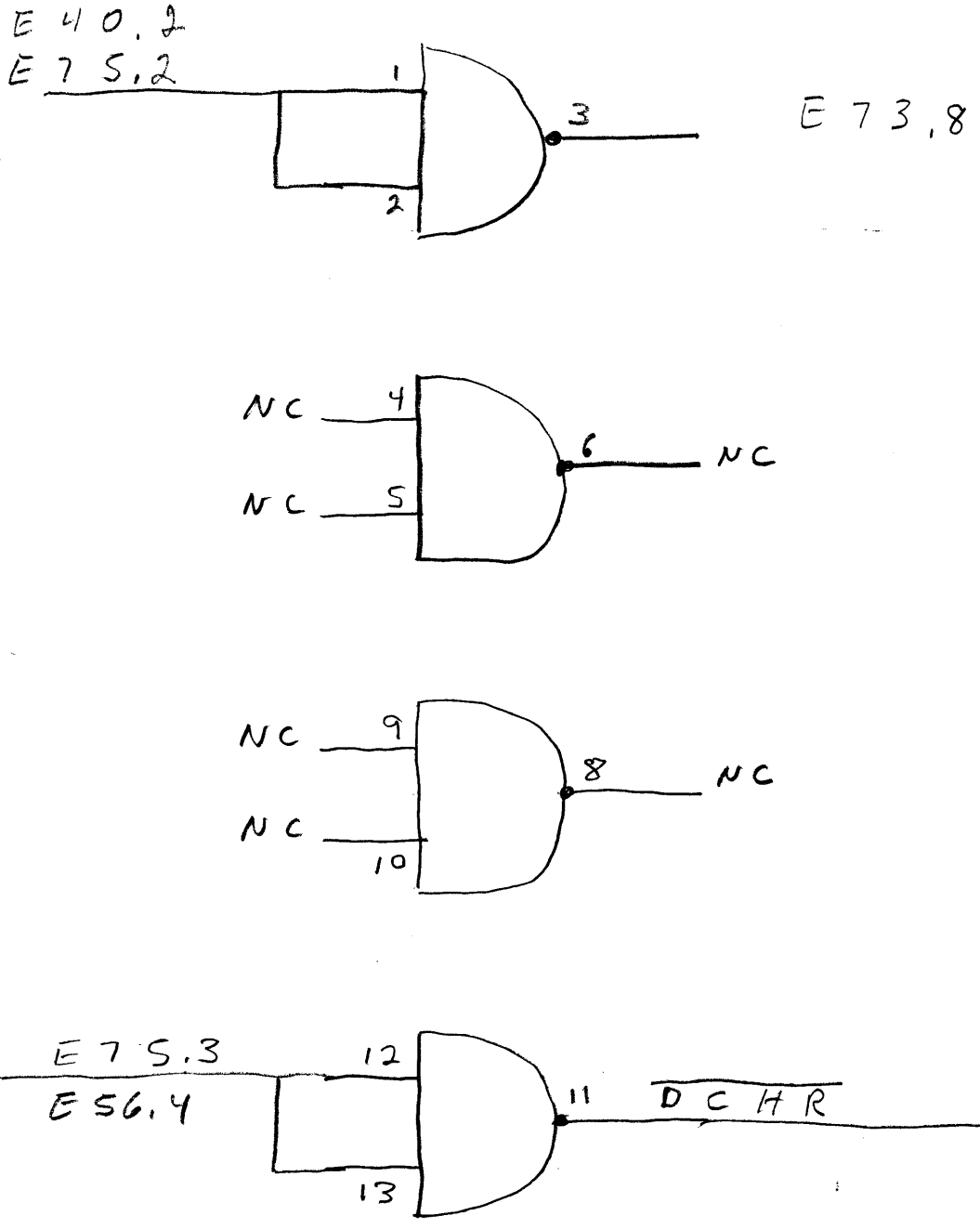


E73 8828 7474





E 7 4 7 4 3 8 0 7 8


E 4 0. 2
E 7 5. 2
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E 7 3, 8
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NC
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NC
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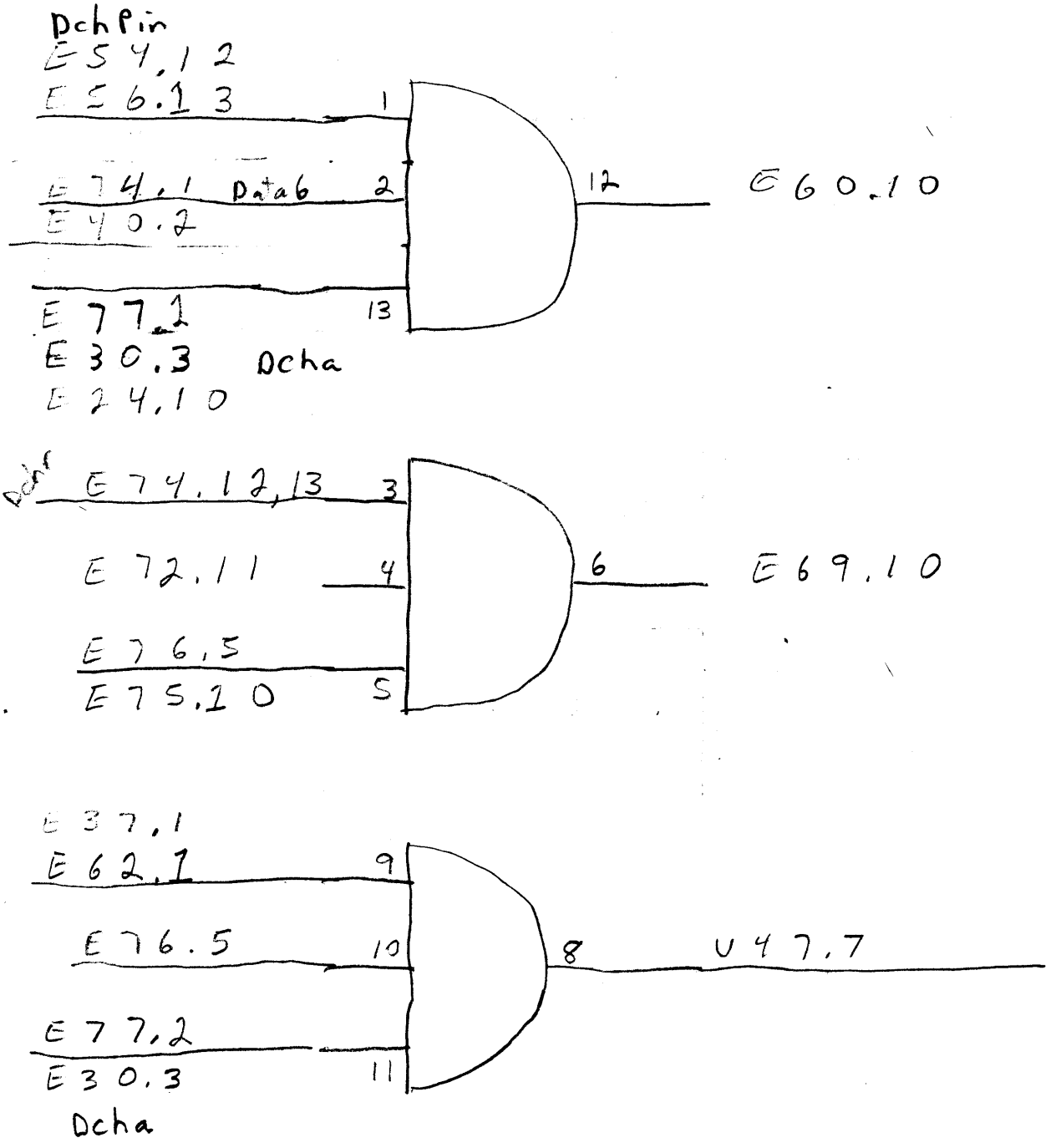
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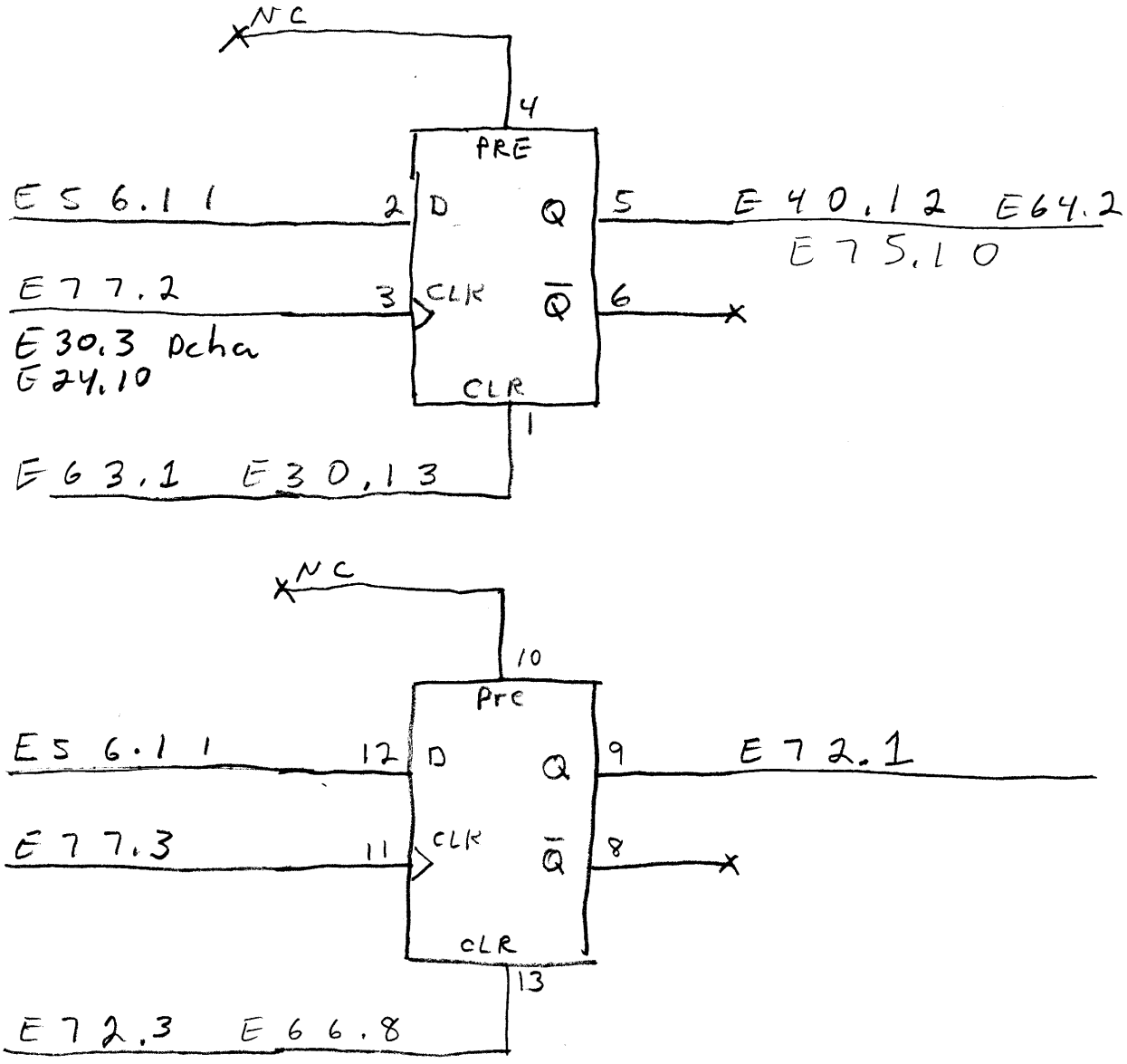

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