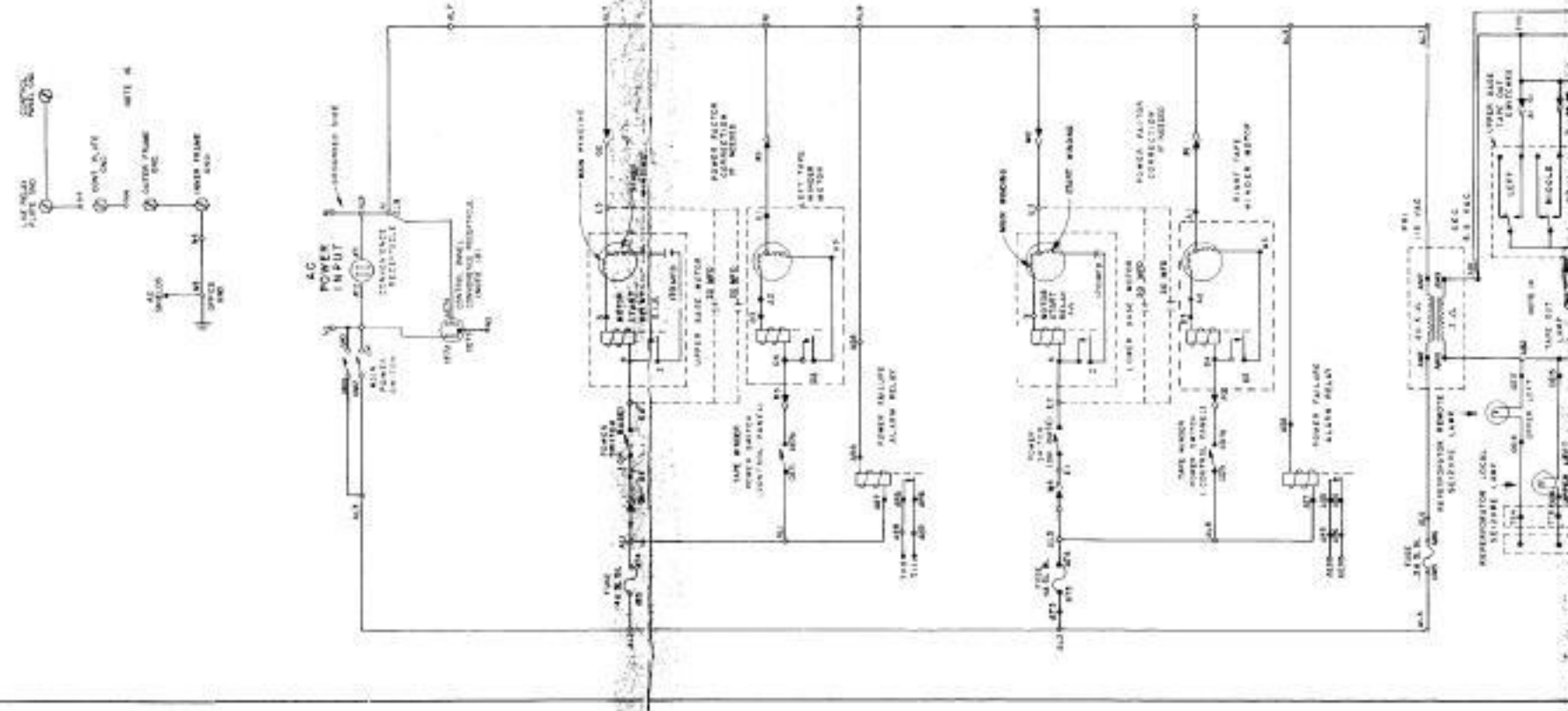


- NOTES**
- FOR WIRING DIAGRAM OF INDIVIDUAL UNITS, SEE:
 - 4343 NO APPARATUS CABINET-LEAD END
 - 2904 NO MOTOR UNITS-LM 3 12
 - 3545 NO TYPING REPEAT-BASE LEAD
 - 3429 NO TYPING REPEAT-LM 3
 - 2720 NO TAPE WINDER-TM 15
 - USE SYNCHRONOUS MOTOR OR REGULATED 160T 1/2% AC POWER ONLY. STEPPER MOTORS AND OTHER POWER CIRCUITS OPERABLE IN 40 TO 60% OVERVOLTAGE ONLY.
 - ALL OPERATED IS SHOWN IN UNOPERATED OR DE-ENERGIZED POSITION.
 - A - RESISTANCE IN OHMS (Ω)
 - B - INDUCTIVE VALUES IN MICROHENRIES (MH)
 - C - CAPACITANCE VALUES IN MICROFARADS (MF) OR IN PFD
- LEGEND**
- CONNECTION PLUS UPPER LEFT REPEAT
 - CONNECTION PLUS UPPER MIDDLE REPEAT
 - ◐ CONNECTION PLUS UPPER RIGHT REPEAT
 - ◑ CONNECTION PLUS UPPER BASE
 - ◒ CONNECTION PLUS LOWER LEFT REPEAT
 - ◓ CONNECTION PLUS LOWER MIDDLE REPEAT
 - ◔ CONNECTION PLUS LOWER RIGHT REPEAT
 - ◕ CONNECTION PLUS LOWER BASE
- SELECTOR SWITCH CIRCUITS WIRING FOR 250 AMPERE OPERATION
 - LINE RELAY CIRCUITS WIRING FOR 250 AMPERE MOTOR OPERATION FOR ONE WIRE OPERATION REMOVE WIRE SHOWS # AND ARE DASHED WIRE
 - FOR POLAR OPERATION REMOVE # WIRE ONLY
 - LINE RELAY CIRCUITS WIRING FOR 100 AMPERE OPERATION REMOVE WIRE #11 WIRING BATTERY EXCHANGE LEADS ON TERMINALS 804 AND 805 (P) AND 814
 - WHEN THE MOTOR JAKE IS USED FOR TRANSMITTING 2 WIRE LINE THE PLUS LEAD MUST BE A 3 CONDUCTOR TYPE LINE IS FURNISHED WITH FOUR MOTOR CABLES (1) IF POLAR TRANSMISSION IS USED THE BATTERY SHOULD BE CONNECTED TO THE POSITIVE END OF THE TRANSMISSION LINE THE 100 AMP BATTERY SHOULD BE CONNECTED TO THE POSITIVE END OF THE TRANSMISSION LINE THE 250 AMP BATTERY SHOULD BE CONNECTED TO THE POSITIVE END OF THE TRANSMISSION LINE THE 100 AMP BATTERY SHOULD BE CONNECTED TO THE POSITIVE END OF THE TRANSMISSION LINE THE 250 AMP BATTERY SHOULD BE CONNECTED TO THE POSITIVE END OF THE TRANSMISSION LINE
 - DO NOT REMOVE WIRE #11 FOR SWITCH MOTOR POWER TO BEAL TRANSMITTER WITH WIRE #11 DASHED WIRE
 - A.C. RECEPTACLE FOR MOTOR POWER OR MOTOR TRANSMITTER POWER MUST BE PROVIDED WITH THE TRANSMITTER
 - WIRE CIRCUITS ARE NOT OPERATED WITH LINE RELAY IS REMOVED FROM ITS POSITION
 - FOR POLAR OPERATION (CROSS) WIRING BATTERY IS TERMINALS 71, 72, 73, 74, 75, 76, 77
 - WHEN POLAR OPERATION IS USED OVER LINE CIRCUITRY WILL NOT OPERATE UNLESS THE LINE RELAY HAS A SMALL AMOUNT OF ELECTRIC OR MECHANICAL SHOCK
 - FOR EXTERNAL USE WIRE INDICATION IS A 4 CONDUCTOR TO 10 AMP AND 100 AMP WIRE FOR WIRE #11 INDICATION CONNECT TO 14 AND 17 WIRE CURRENT SHOWN SHOULD BE 200 AMPERES
 - FOR POLAR OPERATION THE SIGNAL LINE MUST BE CONNECTED TO THE LINE RELAY AND THE SIGNAL LINE SHOULD BE CONNECTED TO THE COMMON OF SWITCH LINE TO
 - SCHEMATIC WIRING CONNECTED TO A TERMINAL BLOCK FOR EXTERNAL CONNECTION

POWER AND CONTROL CIRCUITS



SIGNAL CIRCUITS

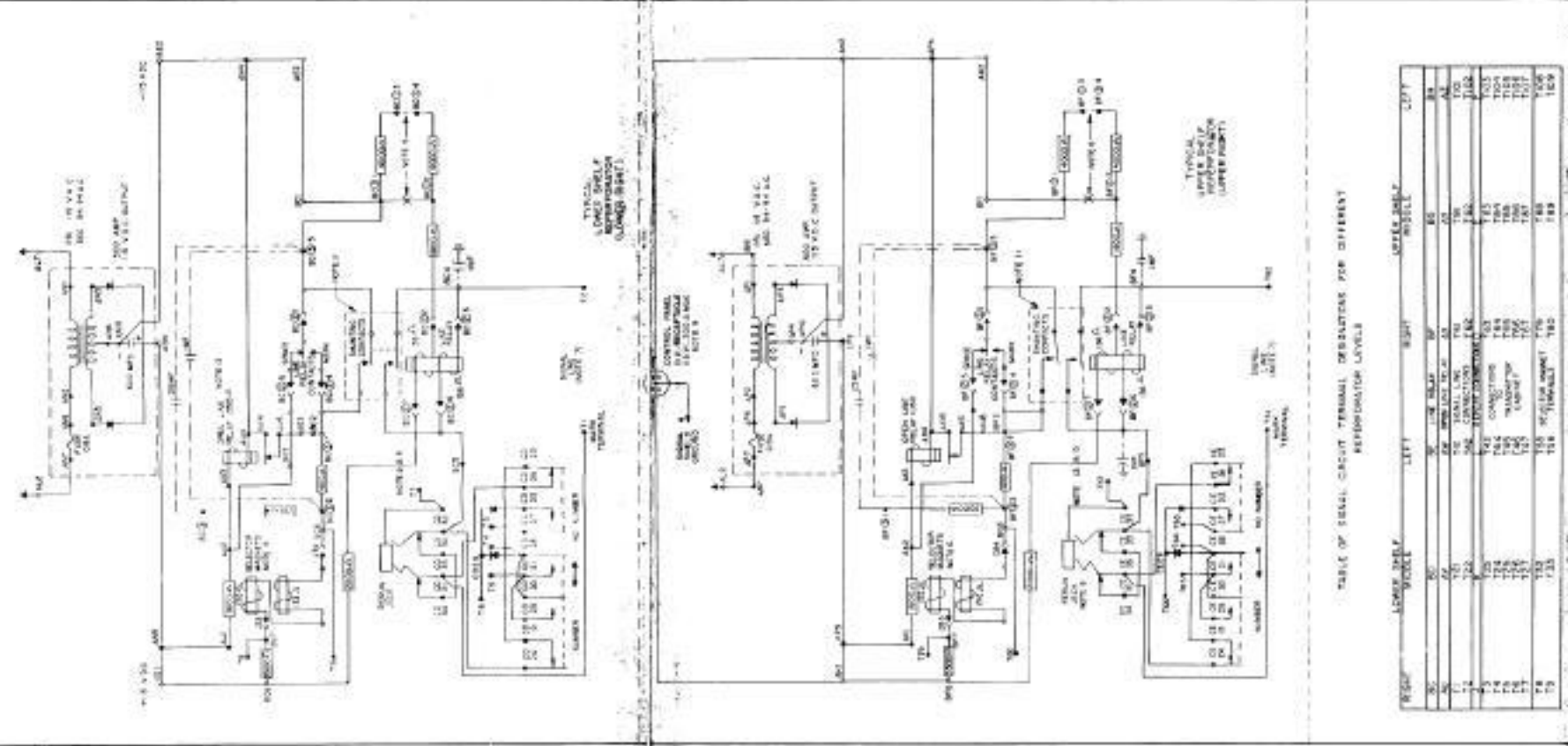


TABLE OF SIGNAL CIRCUIT TERMINAL DESIGNATIONS FOR DIFFERENT REPEATER LEVELS

WIRE	LOWER REPEAT	LEFT	RIGHT	UPPER REPEAT	LEVEL
1	101	101	101	101	101
2	102	102	102	102	102
3	103	103	103	103	103
4	104	104	104	104	104
5	105	105	105	105	105
6	106	106	106	106	106
7	107	107	107	107	107
8	108	108	108	108	108
9	109	109	109	109	109
10	110	110	110	110	110
11	111	111	111	111	111
12	112	112	112	112	112
13	113	113	113	113	113
14	114	114	114	114	114
15	115	115	115	115	115
16	116	116	116	116	116
17	117	117	117	117	117
18	118	118	118	118	118
19	119	119	119	119	119
20	120	120	120	120	120
21	121	121	121	121	121
22	122	122	122	122	122
23	123	123	123	123	123
24	124	124	124	124	124
25	125	125	125	125	125
26	126	126	126	126	126
27	127	127	127	127	127
28	128	128	128	128	128
29	129	129	129	129	129
30	130	130	130	130	130
31	131	131	131	131	131
32	132	132	132	132	132
33	133	133	133	133	133
34	134	134	134	134	134
35	135	135	135	135	135
36	136	136	136	136	136
37	137	137	137	137	137
38	138	138	138	138	138
39	139	139	139	139	139
40	140	140	140	140	140
41	141	141	141	141	141
42	142	142	142	142	142
43	143	143	143	143	143
44	144	144	144	144	144
45	145	145	145	145	145
46	146	146	146	146	146
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48	148	148	148	148	148
49	149	149	149	149	149
50	150	150	150	150	150

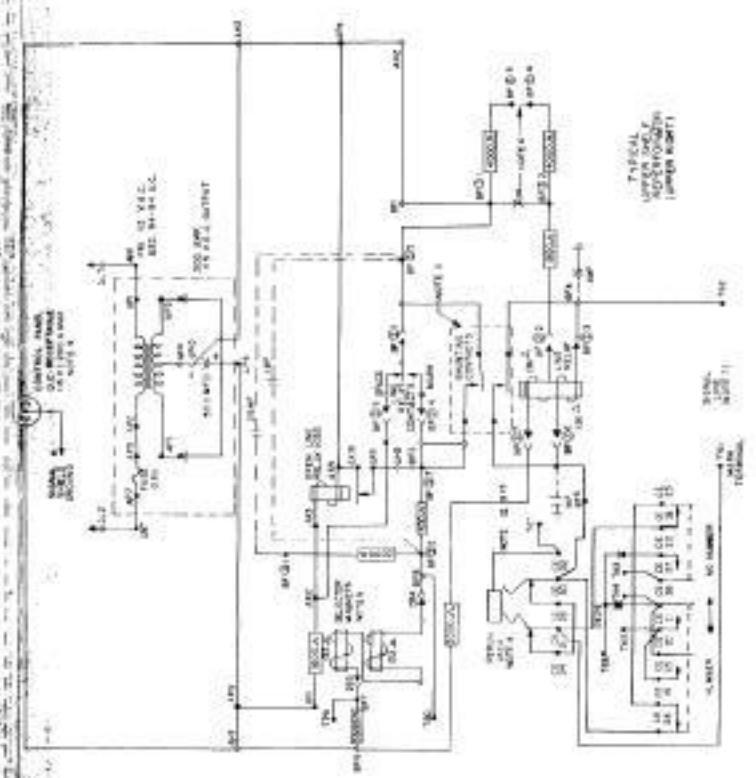
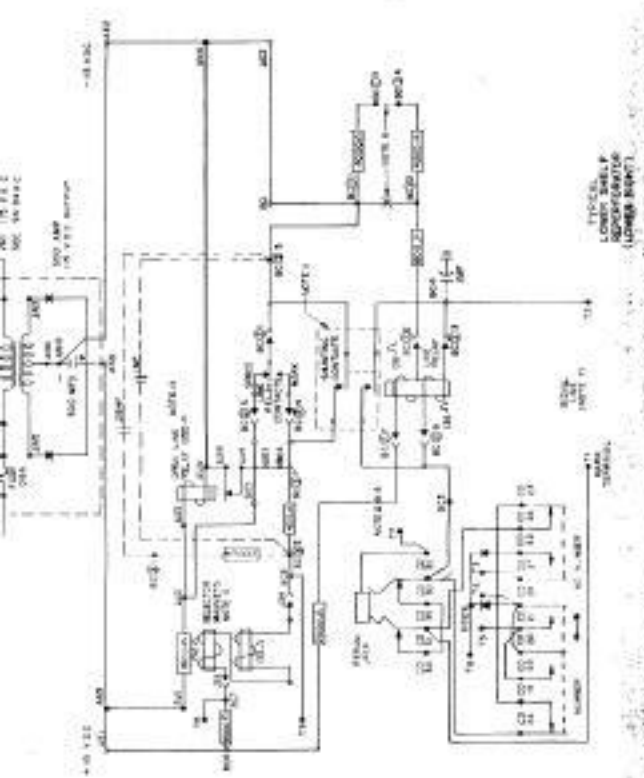
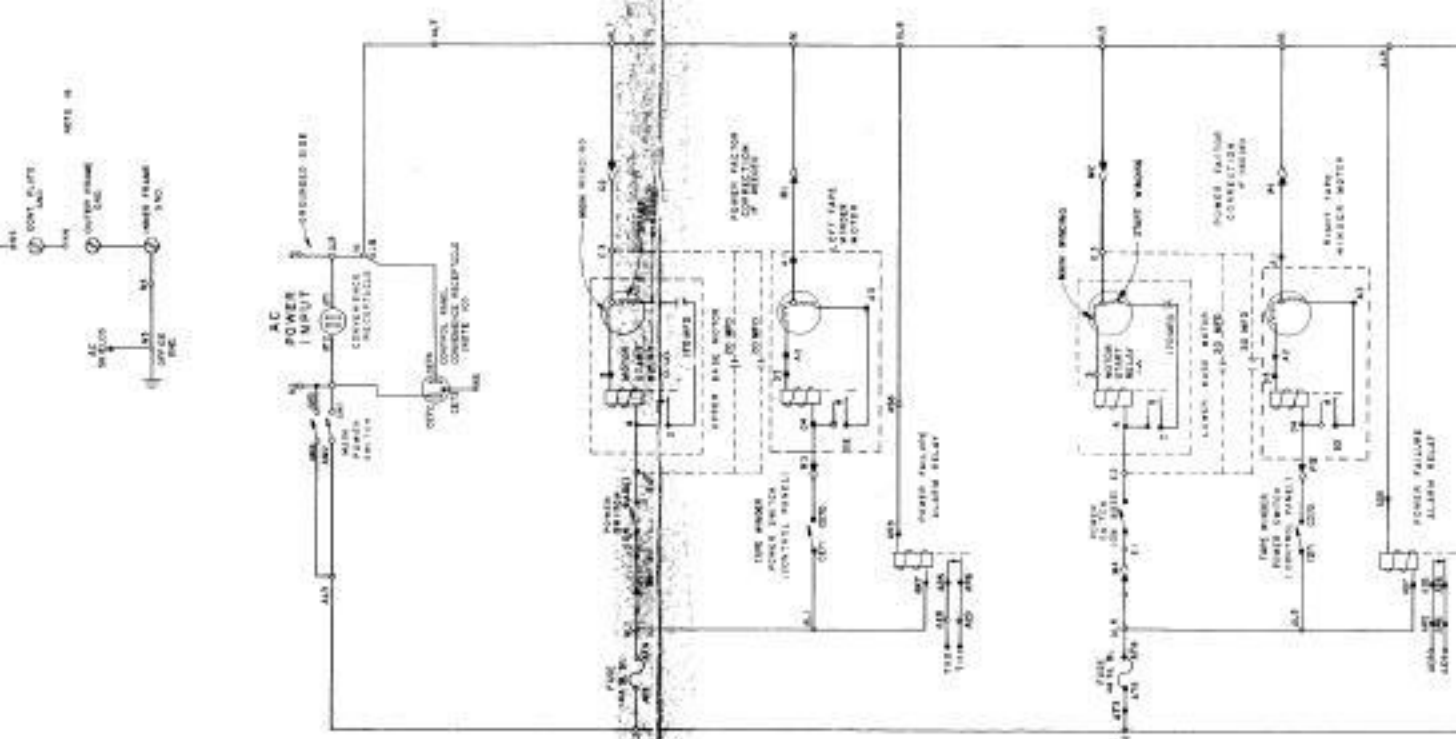


TABLE OF USUAL CIRCUIT TERMINAL DESIGNATIONS FOR DIFFERENT SEPARATOR LEVELS

	LOWER LEVEL	LEFT	RIGHT	UPPER LEVEL	LEFT	RIGHT
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12
13	13	13	13	13	13	13
14	14	14	14	14	14	14
15	15	15	15	15	15	15
16	16	16	16	16	16	16
17	17	17	17	17	17	17
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19	19	19	19	19	19	19
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22	22	22	22	22	22	22
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42	42	42	42	42	42	42
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46	46	46	46	46	46	46
47	47	47	47	47	47	47
48	48	48	48	48	48	48
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55	55	55	55	55	55	55
56	56	56	56	56	56	56
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58	58	58	58	58	58	58
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61	61	61	61	61	61	61
62	62	62	62	62	62	62
63	63	63	63	63	63	63
64	64	64	64	64	64	64
65	65	65	65	65	65	65
66	66	66	66	66	66	66
67	67	67	67	67	67	67
68	68	68	68	68	68	68
69	69	69	69	69	69	69
70	70	70	70	70	70	70
71	71	71	71	71	71	71
72	72	72	72	72	72	72
73	73	73	73	73	73	73
74	74	74	74	74	74	74
75	75	75	75	75	75	75
76	76	76	76	76	76	76
77	77	77	77	77	77	77
78	78	78	78	78	78	78
79	79	79	79	79	79	79
80	80	80	80	80	80	80
81	81	81	81	81	81	81
82	82	82	82	82	82	82
83	83	83	83	83	83	83
84	84	84	84	84	84	84
85	85	85	85	85	85	85
86	86	86	86	86	86	86
87	87	87	87	87	87	87
88	88	88	88	88	88	88
89	89	89	89	89	89	89
90	90	90	90	90	90	90
91	91	91	91	91	91	91
92	92	92	92	92	92	92
93	93	93	93	93	93	93
94	94	94	94	94	94	94
95	95	95	95	95	95	95
96	96	96	96	96	96	96
97	97	97	97	97	97	97
98	98	98	98	98	98	98
99	99	99	99	99	99	99
100	100	100	100	100	100	100

