

```
01 LBL "ESP"           ;ESP Testing and Training Program
02 FIX 0
03 0
04 STO 00
05 STO 03
06 STO 04
07 STO 05
08 "NR MN?"           ;Month Number
09 PROMPT
10 "NR DY?"           ;Day Number
11 PROMPT
12 "YEAR?"            ;Year Number
13 PROMPT
14 "CHOICES=?"        ;Number of choices
15 PROMPT
16 STO 01
17 "RN LN?"           ;Run Length
18 PROMPT
19 STO 00
20 LBL 04
21 "TIME=?"           ;Current Time (for PRNG seed value)
22 PROMPT
23 LN
24 ABS
25 STO 02
26 LBL 05
27 PI
28 RCL 02              ;Pseudo-Random Number Generator (PRNG)
29 +
30 5
31 Y^X
32 FRC
33 STO 02              ;Store new PRNG seed
34 RCL 01
35 *
36 INT
37 STO 06
38 "READY"             ;Ready for input from user
39 TONE 6
40 TONE 6
41 PROMPT              ;Prompt user for response
42 X=Y?                ;Test: is response a hit?
43 GTO 06
44 TONE 0              ;Target identity feedback subroutine
45 XEQ 01              ;if response was a miss
46 LBL 07
47 1                   ;Increment trials counter register
48 ST+ 03
49 RCL 03
50 RCL 00
51 X=Y?                ;Test for end of run
52 GTO "RESULTS"       ;Present results of test (Line 69)
53 GTO 05
54 LBL 06
55 SF 12
56 BEEP
57 " CORRECT"          ;Hit feedback
58 AVIEW
59 CF 12
60 PSE
61 1
62 ST+ 04              ;Increment hit counter register
63 GTO 07
64 LBL "PASS"          ;Pass subroutine
65 XEQ 01
66 1
67 ST+ 05              ;Increment pass counter register
```

```

68 GTO 05
69 LBL "RESULTS" ;Present results of test
70 TONE 3
71 TONE 2
72 RCL 05
73 "NR PASSES=" ;Number of passes
74 ARCL X
75 AVIEW
76 PSE
77 PSE
78 RCL 04
79 "NR HITS=" ;Number of hits
80 ARCL X
81 AVIEW
82 PSE
83 PSE
84 RCL 03
85 "NR TRIALS=" ;Number of trials
86 ARCL X
87 AVIEW
88 PSE
89 PSE
90 RCL 04
91 RCL 03
92 /
93 100
94 *
95 "%HITS=" ;Percentage of hits
96 ARCL X
97 AVIEW
98 PSE
99 PSE
100 CLA
101 AVIEW
102 RCL 03
103 RCL 00
104 X=Y? ;Test for end of run after reviewing results
105 GTO 04
106 GTO 05
107 LBL 01
108 "TARGET WAS " ;Target identity feedback subroutine
109 ARCL 06
110 AVIEW
111 PSE
112 RTN
113 LBL 04
114 "END OF RUN" ;End of run display subroutine
115 AVIEW
116 STOP
117 0
118 STO 03
119 STO 04 ;Subroutine for setting up new run with same
120 STO 05 ;number of choices and same run length
121 GTO 04
122 ADV
123 END

```

```

0123C000F4004553509C001030333435F64E52204D4E3F8EF6
4E522044593F8EF5594541523F8EF943484F494345533D3F8E
31F6524E204C4E3F8E3005F654494D453D3F8E506132067222
401553693221426836F552454144599F069F068E78B7009F00
E00001081192032320781DF7524553554C5453B60007A80C86
F820434F52524543547EA90C89119204B800C000F500504153
53E00001119205B600C000F800524553554C54539F039F0225
FA4E52205041535345533D9B737E898924F84E522048495453
3D9B737E898923FA4E5220545249414C533D9B737E89892423
4311101042F625484954533D9B737E8989877E232078B500B6
0002FB54415247455420574153209B067E898505FA454E4420
4F462052554E7E8410333435B5008FC0000DE1

```

291 BYTES

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Program Registers Needed: 42

Row 1 (1 - 6)



Row 2 (7 - 10)



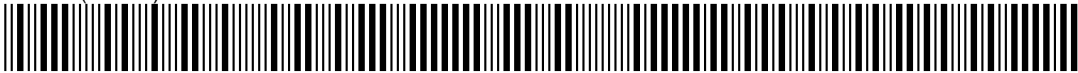
Row 3 (10 - 14)



Row 4 (14 - 17)



Row 5 (17 - 21)



Row 6 (21 - 33)



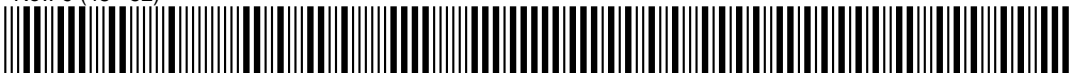
Row 7 (34 - 40)



Row 8 (40 - 48)



Row 9 (48 - 52)



Row 10 (53 - 57)



Row 11 (57 - 64)



Row 12 (64 - 68)



Row 13 (68 - 70)



Row 14 (70 - 73)



Row 15 (73 - 79)



Row 16 (79 - 85)



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Row 17 (85 - 89)



Row 18 (90 - 95)



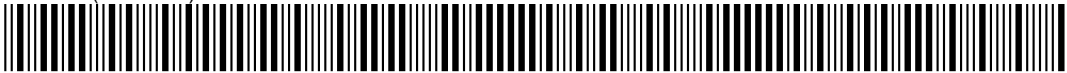
Row 19 (95 - 105)



Row 20 (106 - 108)



Row 21 (108 - 114)



Row 22 (114 - 121)



Row 23 (121 - 123)

