

HP-41C Linear Equation Solver by Robert Meyer  
PPC Calculator Journal V7 N2 P24 Feb-Mar 1980

```
01 LBL "LINSLV" ;Linear Equation Solver
02 "N=?"
03 PROMPT
04 X^2
05 3
06 10^X
07 /
08 ISG X
09 STO 00
10 SF 00
11 LBL a
12 FIX 0
13 CF 29
14 XEQ c
15 RCL 00
16 INT
17 RCL Y
18 MOD
19 X=0?
20 X<>Y
21 X<>Y
22 RDN
23 LASTX
24 RCL 00
25 INT
26 DSE X
27 CLD
28 X<>Y
29 /
30 INT
31 1
32 +
33 "ENTER a"
34 ARCL X
35 ">",""
36 ARCL Y
37 FIX 4
38 SF 29
39 PROMPT
40 XEQ c
41 RCL 00
42 +
43 X<>Y
44 STO IND Y
45 ISG 00
46 GTO a
47 0
48 XEQ I
49 STO 00
50 CF 00
51 LBL b
52 FIX 0
53 CF 29
54 "ENTER b"
55 ARCL 00
56 FIX 4
57 SF 29
58 PROMPT
59 STO IND 00
60 ISG 00
61 GTO b
62 0
63 XEQ I
64 FRC
65 STO 00
66 "RUN"
67 PROMPT
```

68 XEQ A  
69 BEEP  
70 OFF  
71 LBL d  
72 RCL 00  
73 INT  
74 X=0?  
75 GTO 03  
76 FS? 00  
77 GTO 02  
78 RCL 00  
79 INT  
80 1  
81 X=Y?  
82 GTO 01  
83 DSE 00  
84 CLD  
85 GTO b  
86 LBL 01  
87 XEQ c  
88 X^2  
89 ENTER  
90 SF 00  
91 3  
92 10^X  
93 /  
94 +  
95 STO 00  
96 GTO a  
97 LBL 02  
98 DSE 00  
99 CLD  
100 GTO a  
101 LBL 03  
102 XEQ c  
103 ST+ 00  
104 GTO b

00C0C000F7004C494E534C56F34E3D3F8E51135743967330A8  
00CF7B9C00A91DE0007D206890724B6771717576206897737F  
7143681140F7454E54455220619B73F27F2C9B729C04A81D8E  
E0007D20407191F29600D0007B10E0006E30A900CF7C9C00A9  
1DF7454E54455220629B009C04A81D8E91809600D0007C10E0  
006E6930F352554E8EE00066868DCF7E206867B400AC00B300  
20681178B20097007FD0007C02E0007D5183A8001357434030  
D0007B0397007FD0007B04E0007D9200D0007CB8

192 BYTES

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Program Registers Needed: 28

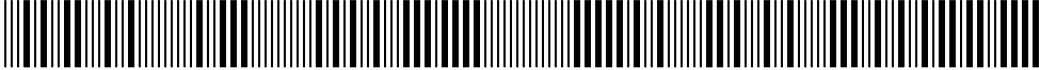
Row 1 (1 - 2)



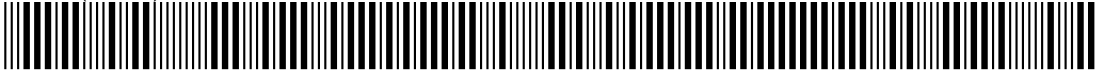
Row 2 (2 - 11)



Row 3 (12 - 19)



Row 4 (20 - 31)



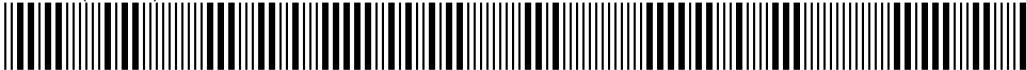
Row 5 (32 - 35)



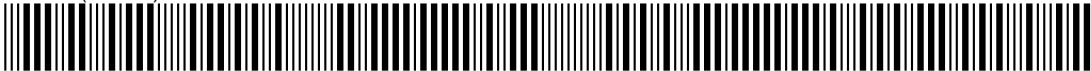
Row 6 (35 - 42)



Row 7 (43 - 49)



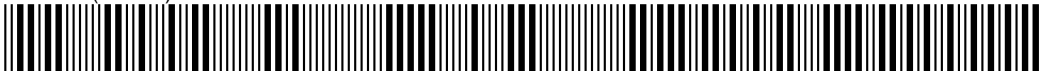
Row 8 (50 - 54)



Row 9 (54 - 60)



Row 10 (60 - 66)



Row 11 (66 - 75)



Row 12 (75 - 83)



Row 13 (84 - 91)



Row 14 (92 - 100)



Row 15 (100 - 104)

