

HP-41C Linear Equations - Gaussian Elimination
Authors: Valentin Albillo and Fernando Del Rey
PPC Calculator Journal V7 No 5 Pg 64 June 1980

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01 LBL "SEQ" ;Linear Equations - Gaussian Elimination
02 LBL A
03 CF 29
04 SF 21
05 CLRG
06 FIX 0
07 "N=?"
08 PROMPT
09 STO 00
10 LBL 00
11 ISG 01
12 LBL B
13 XEQ 13
14 RCL 00
15 1 E3
16 /
17 STO 02
18 ISG 02
19 LBL 10
20 SF 21
21 "A"
22 ARCL 01
23 >","
24 ARCL 02
25 >"=?"
26 PROMPT
27 STO IND 03
28 DSE 03
29 ISG 02
30 GTO 10
31 "B"
32 ARCL 01
33 >"=?"
34 PROMPT
35 STO IND 03
36 CF 21
37 "*"
38 AVIEW
39 XEQ 13
40 RCL 01
41 STO 02
42 LBL 01
43 RCL IND 03
44 X=0?
45 SF 00
46 X=0?
47 GTO 12
48 RCL 03
49 1
50 -
51 ENTER
52 ENTER
53 RCL 00
54 -
55 RCL 02
56 -
57 RCL 01
58 +
59 1 E3
60 /
61 +
62 STO 04
63 LBL 11
64 RCL IND 03
65 ST/ IND 04
66 DSE 04
```

67 GTO 11
68 LBL 12
69 DSE 03
70 DSE 02
71 GTO 02
72 GTO 15
73 LBL 13
74 RCL 00
75 RCL 01
76 -
77 2
78 +
79 RCL 01
80 1
81 -
82 *
83 6
84 +
85 RCL 00
86 +
87 STO 03
88 RTN
89 LBL 02
90 FS?C 00
91 GTO 01
92 XEQ 14
93 LBL 07
94 RCL IND 04
95 ST- IND 05
96 DSE 05
97 DSE 04
98 GTO 07
99 GTO 01
100 LBL 14
101 RCL 00
102 RCL 01
103 STO 05
104 -
105 2
106 +
107 STO 04
108 ST* 05
109 RCL 01
110 RCL 02
111 -
112 ST* 04
113 5
114 ST+ 04
115 ST+ 05
116 RCL 04
117 RCL 00
118 -
119 RCL 01
120 +
121 2
122 -
123 1 E3
124 /
125 ST+ 04
126 RTN
127 LBL 15
128 "***"
129 AVIEW
130 0
131 FS?C 00
132 1/X
133 RCL 01
134 1
135 X=Y?
136 GTO 03

137 -
138 STO 02
139 LBL 08
140 XEQ 14
141 RCL IND 04
142 STO 03
143 DSE 04
144 LBL 09
145 DSE 05
146 RCL IND 05
147 RCL 03
148 *
149 ST- IND 04
150 DSE 04
151 GTO 09
152 DSE 02
153 GTO 08
154 RCL 01
155 1 E3
156 /
157 2
158 +
159 STO 02
160 LBL 05
161 RCL 00
162 RCL 01
163 -
164 2
165 +
166 ENTER
167 ENTER
168 RCL 02
169 INT
170 *
171 RCL X
172 RCL Z
173 -
174 X<>Y
175 1 E3
176 /
177 +
178 6.004
179 +
180 STO 04
181 STO 05
182 RCL 02
183 INT
184 1
185 -
186 ST- 05
187 LBL 06
188 RCL IND 04
189 STO IND 05
190 1
191 ST+ 05
192 ISG 04
193 GTO 06
194 ISG 02
195 GTO 05
196 LBL 03
197 RCL 00
198 RCL 01
199 X#Y?
200 GTO 00
201 LBL C
202 SF 21
203 ADV
204 RCL 00
205 1 E3
206 /

207 6.005
208 +
209 STO 03
210 1
211 STO 04
212 LBL 04
213 FIX 0
214 "X"
215 ARCL 04
216 >=" "
217 FIX 4
218 ARCL IND 03
219 AVIEW
220 1
221 ST+ 04
222 ISG 03
223 GTO 04
224 ADV
225 END

0162C000F400534551CF66A91DA8158A9C00F34E3D3F8E3001
9601CF67E0000D20111B13433296020BA815F1419B01F27F2C
9B02F37F3D3F8E918397039602BB00F1429B01F37F3D3F8E91
83A915F12A7EE0000D213202908367A80067BD002311418383
204122412140111B134340340C908395849704BC000D970397
02B300D0000F0E20214112402111414216402040338503AA00
B200E0000E089084938597059704B800B2000F202135411240
3494052122419404159204920524204121401241111B134392
0485CF0FF22A2A7E10AA0060211178B400413209E0000E9084
3397040A97059085234293849704BA009702B90021111B1343
1240320620214112408383226842907390714171111B134340
161A10101440343522681141930507908491851192059604B7
009602B60004202179B100CF68A8158F20111B1343161A1010
1540331134059C00F1589B04F27F3D9C049B837E1192049603
B5008FC0000D3F

354 BYTES

HP-41C Lin. Eqns. Gauss. Elim. by Albillo & Del Rey PPC V7 N5 P64 June 1980

Program Registers Needed: 51

Row 1 (1 - 4)



Row 2 (5 - 12)



Row 3 (12 - 19)



Row 4 (20 - 25)



Row 5 (25 - 31)



Row 6 (32 - 37)



Row 7 (38 - 46)



Row 8 (47 - 58)



Row 9 (59 - 66)



Row 10 (67 - 73)



Row 11 (74 - 86)



Row 12 (87 - 94)



Row 13 (95 - 102)



Row 14 (103 - 113)



Row 15 (114 - 123)



Row 16 (123 - 131)



Row 17 (131 - 140)



Row 18 (141 - 149)



Row 19 (149 - 155)



Row 20 (156 - 168)



Row 21 (169 - 177)



Row 22 (178 - 186)



Row 23 (186 - 193)



Row 24 (194 - 202)



Row 25 (202 - 208)



Row 26 (209 - 216)



Row 27 (217 - 224)



Row 28 (225)

