

HP-41C Inverse & Determinant & Systems of Equations by  
PPC Calculator Journal V8 N3 P9 May 1981 John Kennedy  
Modified version uses PPC ROM: QR/M1/M2/M3/M4/M5/Bx/BE

```
01 LBL "RRM" ;Row Reduction Method
02 .
03 STO 03
04 STO 04
05 SIGN
06 STO 01
07 SF 10
08 LBL 05
09 ISG 03
10 LBL 06
11 ISG 04
12 "" ;F0=null string (NOP)
13 RCL 08
14 RCL 04
15 X>Y?
16 RTN
17 RCL 09
18 RCL 03
19 X>Y?
20 RTN
21 RCL 04
22 XROM 20,36 ;M5 - Matrix, (i,j) to Register Address
23 X<> Z
24 XROM 20,36 ;M5 - Matrix, (i,j) to Register Address
25 E3
26 /
27 +
28 RCL 08
29 E5
30 /
31 +
32 XROM 20,41 ;BX - Block Extrema
33 RCL IND M
34 ST* 01
35 X=0?
36 GTO 06
37 1/X
38 RCL M
39 INT
40 XROM 20,35 ;M4 - Matrix, Register Address to (i,j)
41 RDN
42 STO 02
43 XROM 20,31 ;M2 - Matrix, Multiply Row by Constant
44 RCL 02
45 ST- 02
46 RCL 03
47 X=Y?
48 GTO 07
49 XROM 20,33 ;M1 - Matrix, Interchange Two Rows
50 RCL 01
51 CHS
52 STO 01
53 LBL 07
54 ISG 02
55 "" ;F0=null string (NOP)
56 RCL 09
57 RCL 02
58 X>Y?
59 GTO 05
60 RCL 03
61 X=Y?
62 GTO 07
63 RCL 02
64 RCL 04
65 XROM 20,36 ;M5 - Matrix, (i,j) to Register Address
66 RDN
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67 RCL IND T
68 CHS
69 XROM 20,32 ;M3 - Matrix, Add Multiple of Row to Another
70 GTO 07
71 END
```

```
0068C000F40052524D1A33347A31A80A069603079604F02824
45852923458524A524CE71A5241B134340281B154340A52990
F5940167B70060907568A5237532A51F2293022378B800A521
215431089602F0292245B6002378B8002224A5247590F054A5
20B800C0000D0F
```

104 BYTES

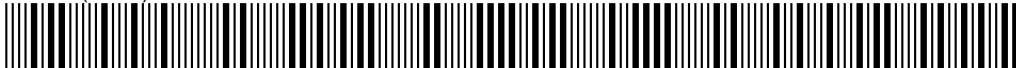
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Program Registers Needed: 15

Row 1 (1 - 7)



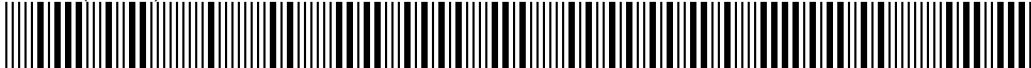
Row 2 (7 - 17)



Row 3 (18 - 26)



Row 4 (27 - 35)



Row 5 (36 - 44)



Row 6 (45 - 54)



Row 7 (54 - 64)



Row 8 (65 - 71)

