

HP-41C Inverse & Determinant & Systems of Equations by
PPC Calculator Journal V8 N3 P9 May 1981 John Kennedy
Original version needs 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 XEQ "M5" ;Matrix, (i,j) to Register Address - XROM 20,36
23 X<> Z
24 XEQ "M5" ;Matrix, (i,j) to Register Address - XROM 20,36
25 E3
26 /
27 +
28 RCL 08
29 E5
30 /
31 +
32 XEQ "BX" ;Block Extrema - XROM 20,41
33 RCL IND M
34 ST* 01
35 X=0?
36 GTO 06
37 1/X
38 RCL M
39 INT
40 XEQ "M4" ;Matrix, Register Address to (i,j) - XROM 20,35
41 RDN
42 STO 02
43 XEQ "M2" ;Matrix, Multiply Row by Constant - XROM 20,31
44 RCL 02
45 ST- 02
46 RCL 03
47 X=Y?
48 GTO 07
49 XEQ "M1" ;Matrix, Interchange Two Rows - XROM 20,33
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 XEQ "M5" ;Matrix, (i,j) to Register Address - XROM 20,36
66 RDN
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67 RCL IND T
68 CHS
69 XEQ "M3" ;Matrix, Add Multiple of Row to Another - XROM 20,32
70 GTO 07
71 END
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```
0078C000F40052524D1A33347A31A80A069603079604F02824
458529234585241EF24D35CE711EF24D351B134340281B1543
401EF2425890F5940167B700609075681EF24D3475321EF24D
322293022378B8001EF24D31215431089602F0292245B60023
78B80022241EF24D357590F0541EF24D33B800C0000D7D
```

120 BYTES

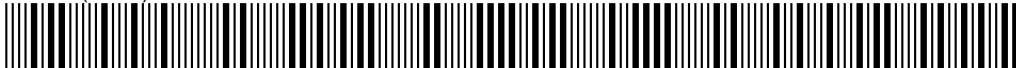
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Program Registers Needed: 18

Row 1 (1 - 7)



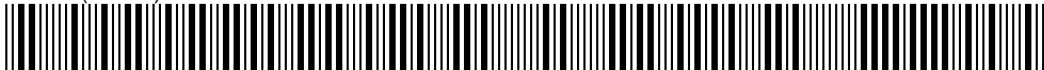
Row 2 (7 - 17)



Row 3 (18 - 24)



Row 4 (24 - 32)



Row 5 (32 - 40)



Row 6 (40 - 46)



Row 7 (47 - 54)



Row 8 (55 - 65)



Row 9 (65 - 70)



Row 10 (71)

