

HP-41C Permutations for Alphametics by Bill Boulton
PPC Calculator Journal V7 No. 2 Pg. 55 Feb-Mar 1980

```
01 LBL 13
02 SF 11
03 OFF
04 CLA
05 RCL 20
06 1
07 +
08 ARCL X
09 >" CYCLES"
10 AVIEW
11 STOP
12 LBL "PERM" ;Permutations for Alphametics
13 -1
14 STO 20
15 SF 01
16 FIX 0
17 1
18 "N?"
19 PROMPT
20 STO 21
21 "M?"
22 PROMPT
23 STO 22
24 -
25 X=0?
26 +
27 .1
28 +
29 STO 23
30 .019
31 STO 24
32 LBL 00
33 RCL 24
34 INT
35 10
36 /
37 FRC
38 10
39 *
40 STO IND 24
41 ISG 24
42 GTO 00
43 RCL 21
44 1
45 -
46 1 E3
47 /
48 STO 24
49 AON
50 LBL 15
51 "YOU LOAD?"
52 PROMPT
53 ASTO X
54 "NO"
55 ASTO Y
56 X=Y?
57 GTO 10
58 "YES"
59 ASTO Y
60 X#Y?
61 GTO 15
62 " MODE ?"
63 PROMPT
64 LBL 14
65 "LOAD"
66 >" "
67 RCL 24
```

```
68 1
69 +
70 ARCL X
71 PROMPT
72 FC? 48
73 STO IND 24
74 FS? 48
75 ASTO IND 24
76 ISG 24
77 GTO 14
78 LBL 10
79 "INSERT TEST"
80 PROMPT
81 FC? 01
82 GTO 11
83 CF 29
84 CLA
85 RCL 21
86 RCL 22
87 -
88 RCL 21
89 1
90 -
91 1 E3
92 /
93 +
94 LBL 12
95 ARCL IND X
96 ISG X
97 GTO 12
98 AVIEW
99 LBL 11
100 RCL 23
101 STO 10
102 10
103 +
104 STO 25
105 1
106 ST+ 20
107 LBL 20
108 RCL 10
109 INT
110 RCL 21
111 X=Y?
112 GTO 13
113 RCL 00
114 GTO IND 10
115 LBL 09
116 X<> 09
117 LBL 08
118 X<> 08
119 LBL 07
120 X<> 07
121 LBL 06
122 X<> 06
123 LBL 05
124 X<> 05
125 LBL 04
126 X<> 04
127 LBL 03
128 X<> 03
129 LBL 02
130 X<> 02
131 LBL 01
132 X<> 01
133 X<> 00
134 RCL 10
135 INT
136 STO IND 25
137 ISG 25
```

```
138 ISG 10
139 DSE IND 25
140 GTO 10
141 GTO 20
142 END
```

```
01150EA80B8D87901411409B73F87F204359434C45537E84C0
00F5005045524D1C119114A8019C0011F24E3F8E9115F24D3F
8E91164167401A114091171A10111991180190186811104369
11104291989618B10090151141111B134391188CCF0FF9594F
55204C4F41443F8E9A73F24E4F9A7278BB00F35945539A7279
D0000FF7204D4F4445203F8E0FF44C4F4144F27F2090181140
9B738EAD309198AC309A989618BF000BFB494E534552542054
4553548EAD01BC00A91D87901590164190151141111B134340
0D9BF39673BD007E0C90173A1110409119119214CF142A6890
1578BE0020AE0A0ACE0909CE0808CE0707CE0606CE0505CE04
04CE0303CE0202CE01CE002A6891999619960A9799BB00D000
14C0000DB8
```

277 BYTES

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Program Registers Needed: 40

Row 1 (1 - 9)



Row 2 (9 - 12)



Row 3 (12 - 17)



Row 4 (18 - 24)



Row 5 (25 - 31)



Row 6 (32 - 40)



Row 7 (41 - 48)



Row 8 (48 - 51)



Row 9 (51 - 58)



Row 10 (58 - 62)



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Row 11 (62 - 66)



Row 12 (66 - 74)



Row 13 (74 - 79)



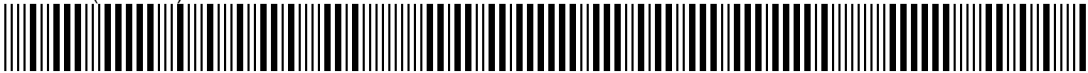
Row 14 (79 - 83)



Row 15 (83 - 91)



Row 16 (91 - 100)



Row 17 (100 - 108)



Row 18 (109 - 117)



Row 19 (118 - 126)



Row 20 (126 - 134)



Row 21 (135 - 141)



Row 22 (141 - 142)

