

HP-41C Tower of Hanoi by Harry Bertuccelli
PPC Calculator Journal V8 N3 P22 May 1981
Original: requires stand-alone SR/LR/UD/HD

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01 LBL "ITWR" ;Initialize Tower of Hanoi
02 STO 02
03 5
04 *
05 STO 03
06 .5
07 +
08 STO 00
09 3.5
10 +
11 STO IND 00
12 ISG 00
13 RCL 02
14 0
15 LBL 00
16 E1
17 /
18 RCL Y
19 +
20 DSE Y
21 GTO 00
22 STO IND 00
23 ISG 00
24 CLX
25 STO IND 00
26 ISG 00
27 STO IND 00
28 .123
29 STO 01
30 RCL 02
31 1
32 STO 04
33 -
34 FIX IND X
35 XEQ 99
36 LBL "TWR" ;Tower of Hanoi
37 RCL 04
38 4
39 MOD
40 X#0?
41 GTO 01
42 RCL 03
43 RCL IND X
44 2
45 ST+ IND Z
46 X<>Y
47 XEQ "LR" ;Lengthen Return Stack - XROM 20,02
48 LBL 01
49 RCL 02
50 1
51 X=Y?
52 GTO 02
53 -
54 STO 07
55 RCL 04
56 1
57 +
58 STO 09
59 XEQ 05
60 X<>Y
61 XEQ 06
62 STO 06
63 RCL 03
64 STO 08
65 5
66 ST- 08
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67 ST- IND 03
68 XEQ "HD" ;Hide Data Registers - XROM 10,20
69 XEQ "TWR" ;Tower of Hanoi
70 XEQ "UD" ;Uncover Data Register - XROM 10,08
71 5
72 ST+ IND 03
73 LBL 02
74 XEQ 05
75 RCL Z
76 XEQ 10
77 RCL 02
78 1
79 X=Y?
80 GTO 03
81 XEQ 05
82 RDN
83 X<>Y
84 R^
85 XEQ 06
86 STO 06
87 5
88 ST- IND 03
89 XEQ "HD" ;Hide Data Registers - XROM 10,20
90 XEQ "TWR" ;Tower of Hanoi
91 XEQ "UD" ;Uncover Data Register - XROM 10,08
92 5
93 ST+ IND 03
94 LBL 03
95 RCL 04
96 4
97 MOD
98 X#0?
99 RTN
100 RCL 03
101 2
102 ST- IND Y
103 RCL IND Y
104 XEQ "SR" ;Shorten Return Stack - XROM 20,00
105 RTN
106 LBL 05
107 RCL 01
108 E1
109 *
110 INT
111 LASTX
112 FRC
113 E1
114 *
115 INT
116 LASTX
117 FRC
118 E1
119 *
120 RTN
121 LBL 06
122 E1
123 /
124 +
125 E1
126 /
127 +
128 E1
129 /
130 RTN
131 LBL 10
132 "... "
133 AVIEW
134 RCL 03
135 ST+ Z
136 +

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137 E1
138 ST/ IND Z
139 CLX
140 RCL IND Y
141 INT
142 ST+ IND Z
143 CLX
144 LASTX
145 FRC
146 E1
147 *
148 STO IND Y
149 LBL 99
150 RCL 03
151 1
152 +
153 RCL X
154 2
155 +
156 E3
157 /
158 +
159 LBL 11
160 VIEW IND X
161 PSE
162 ISG X
163 GTO 11
164 END

0110C000F50049545752321542331A154030131A1540918096
002210011B11439072409772B1009180960077918096009180
1A11121331221134419CF3E00063C000F40054575224144B63
B2002390F31292F1711EF24C5202221178B300413724114039
E0000571E0000636233815930893831EF248441EF35457521E
F2554415928303E000059071E0000A221178B400E000057571
74E00006361593831EF248441EF35457521EF2554415928304
24144B6385231293F290F21EF253528506211B11426876691B
11426876691B114285071B1143401B1143401B1143850BF32E
2E2E7E239271401B1195F17790F26892F17776691B114291F2
CF63231140907312401B1343400C98F3899673BC00C0000DD6

272 BYTES

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Program Registers Needed: 39

Row 1 (1 - 6)



Row 2 (6 - 14)



Row 3 (15 - 22)



Row 4 (23 - 28)



Row 5 (29 - 36)



Row 6 (36 - 43)



Row 7 (44 - 52)



Row 8 (52 - 61)



Row 9 (61 - 68)



Row 10 (69 - 73)



Row 11 (74 - 80)



Row 12 (81 - 88)



Row 13 (89 - 91)



Row 14 (92 - 102)



Row 15 (103 - 110)



Row 16 (111 - 121)

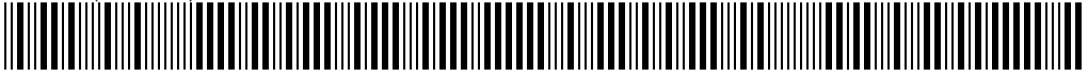


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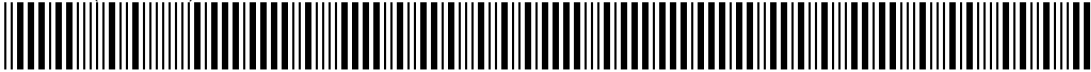
Row 17 (122 - 131)



Row 18 (132 - 138)



Row 19 (139 - 148)



Row 20 (148 - 157)



Row 21 (158 - 164)

