

HP-41C Eight Queens Problem by Kiyoshi Akima
PPC Calculator Journal V8 N6 P48 Aug-Dec 1981

```
01 LBL "8Q"      ;Eight Queens Problem Revisited
02 CLRG
03 SF 00
04 CF 21
05 "EIGHT QUEENS"
06 AVIEW
07 1.012
08 STO 00
09 8
10 STO N
11 LBL 00
12 CF IND X
13 DSE X
14 GTO 00
15 E
16 STO O
17 E1
18 STO 10
19 12
20 STO 12
21 9
22 STO M
23 LBL 01
24 RCL N
25 STO IND O
26 SF IND X
27 ISG O
28 ""            ;F0=null string (NOP)
29 8
30 STO N
31 RCL O
32 X>Y?
33 GTO 07
34 LBL 02
35 FS? IND N
36 GTO 06
37 RCL O
38 RCL N
39 ENTER
40 LBL 03
41 DSE Z
42 X=0?
43 GTO 04
44 ISG Y
45 ""            ;F0=null string (NOP)
46 CLX
47 RCL M
48 X=Y?
49 GTO 04
50 CLX
51 RCL IND Z
52 X#Y?
53 GTO 03
54 GTO 06
55 LBL 04
56 RCL O
57 RCL N
58 ENTER
59 LBL 05
60 DSE Y
61 X=0?
62 GTO 01
63 DSE Z
64 X=0?
65 GTO 01
66 CLX
67 RCL IND Z
```

68 X#Y?
69 GTO 05
70 LBL 06
71 DSE N
72 GTO 02
73 LBL 15
74 DSE O
75 RCL IND O
76 STO N
77 ST- IND O
78 CF IND X
79 GTO 06
80 LBL 07
81 FS?C 00
82 GTO 07
83 CLX
84 LBL 08
85 RCL IND Y
86 10^X
87 RCL Z
88 *
89 +
90 DSE Y
91 GTO 08
92 RCL 10
93 /
94 XEQ 13
95 7
96 STO 09
97 RCL 10
98 RCL 10
99 RCL 10
100 RCL 08
101 LBL 09
102 *
103 RCL IND 09
104 +
105 DSE 09
106 GTO 09
107 XEQ 13
108 8
109 ENTER
110 CLX
111 LBL 10
112 8
113 RCL IND Z
114 -
115 10^X
116 RCL Z
117 *
118 +
119 DSE Y
120 GTO 10
121 XEQ 13
122 LBL 07
123 2.008
124 STO 09
125 RCL 10
126 RCL 10
127 RCL 10
128 RCL 01
129 LBL 11
130 *
131 RCL IND 09
132 +
133 ISG 09
134 GTO 11
135 RCL 00
136 RCL 12
137 +

```

138 RDN
139 STO IND T
140 ISG 00
141 GTO 15
142 BEEP
143 LBL "8QP" ;Printed version of solution
144 FIX 0
145 SF 21
146 CF 29
147 1.012
148 FC? 55
149 GTO 12
150 ADV
151 SF 12
152 "SOLUTIONS TO"
153 AVIEW
154 "EIGHT QUEENS"
155 AVIEW
156 ADV
157 LBL 12
158 CLA
159 RCL 10
160 RCL Y
161 X<=Y?
162 " " ;1 space
163 ARCL X
164 ">: " ;Append 1 colon, 1 space
165 RCL 12
166 +
167 ARCL IND X
168 AVIEW
169 RCL Z
170 ISG X
171 GTO 12
172 ADV
173 ADV
174 ADV
175 CLX
176 ADV
177 ADV
178 STOP
179 LBL 13
180 XEQ 13
181 E8
182 RCL Z
183 -
184 DSE X
185 LBL 13
186 RCL 00
187 RCL 12
188 +
189 STO Z
190 LBL 14
191 DSE Z
192 X=0?
193 RTN
194 CLX
195 RCL IND Z
196 X>Y?
197 RTN
198 X#Y?
199 GTO 14
200 GTO 15
201 END

```

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0169C000F30038518AA800A915FC454947485420515545454E
537E111A1011123018917601A9F39773B1001B91771B113A11
123C19917502907691F7A8F39677F0189176907745B80003AC
F6B700907790768304977167B5009672F077907578B5007790
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F179B600079776B300CF0F977790F7917693F7A9F3B70008AA
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2A280A429089409709BA00E0000D1883770B1890F141579071
42409772BB00E0000D08121A101018392A2A2A210C42908940
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5320544F7EFC454947485420515545454E537E8F0D872A9072
46F1209B73F37F3A202C409BF37E90719673BD008F8F8F778F
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90F1458579BF00D0000FC0000D21

361 BYTES

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Program Registers Needed: 52

Row 1 (1 - 5)



Row 2 (5 - 7)



Row 3 (7 - 13)



Row 4 (14 - 22)



Row 5 (22 - 30)



Row 6 (30 - 37)



Row 7 (38 - 46)



Row 8 (47 - 54)



Row 9 (55 - 63)



Row 10 (63 - 71)



Row 11 (72 - 78)



Row 12 (78 - 86)



Row 13 (87 - 94)



Row 14 (95 - 105)



Row 15 (106 - 114)



Row 16 (115 - 122)



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Row 17 (123 - 131)



Row 18 (131 - 140)



Row 19 (140 - 144)



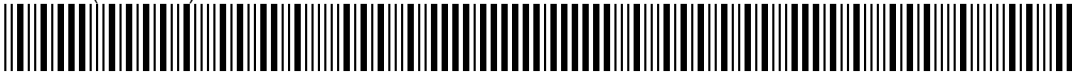
Row 20 (144 - 149)



Row 21 (149 - 152)



Row 22 (152 - 154)



Row 23 (154 - 161)



Row 24 (162 - 168)



Row 25 (169 - 178)



Row 26 (179 - 186)



Row 27 (187 - 196)



Row 28 (197 - 201)

