

HP-41C Magic Squares Program by Gino Matthys  
PPC Calculator Journal V9 N7 P26 Oct-Nov 1982

```
01 LBL "MASQ" ;Magic Squares Program
02 ADV
03 SF 12
04 "MAGIC SQUARE"
05 AVIEW
06 CF 12
07 ADV
08 FIX 0
09 CF 29
10 LBL 04
11 "OD DIM>3 ?"
12 TONE 7
13 PROMPT
14 STO 00
15 2
16 /
17 FRC
18 X=0?
19 GTO 04
20 RCL 00
21 ENTER
22 X^2
23 E
24 +
25 2
26 /
27 *
28 "SUM="
29 ARCL X
30 AVIEW
31 PSE
32 RCL 00
33 E3
34 /
35 STO 06
36 E
37 +
38 STO 05
39 "START ?"
40 PROMPT
41 ENTER
42 ENTER
43 RCL 00
44 .1
45 +
46 /
47 INT
48 1
49 +
50 STO 01
51 1
52 -
53 RCL 00
54 *
55 -
56 STO 02
57 RCL 00
58 X^2
59 E3
60 /
61 STO 03
62 XEQ 15
63 LBL 07
64 RCL 00
65 2
66 -
67 E3
```

```
68 /
69 STO 04
70 LBL 05
71 XEQ 16
72 ISG 04
73 GTO 05
74 XEQ 03
75 GTO 07
76 LBL 03
77 ISG 05
78 GTO 02
79 FS? 55
80 XROM 29,10 ;PRBUF
81 "READY"
82 BEEP
83 PROMPT
84 LBL 02
85 RCL 00
86 RCL 01
87 E
88 +
89 X>Y?
90 E
91 STO 01
92 RCL 00
93 RCL 02
94 2
95 +
96 X>Y?
97 -
98 X<0?
99 CHS
100 STO 02
101 XEQ 15
102 RTN
103 LBL 15
104 ISG 03
105 CLX
106 ISG 06
107 GTO 00
108 FS? 55
109 XROM 29,10 ;PRBUF
110 RCL 00
111 E3
112 /
113 E
114 +
115 STO 06
116 LBL 00
117 RCL 02
118 RCL 01
119 E
120 -
121 RCL 00
122 *
123 +
124 FC? 55
125 GTO 01
126 10
127 X>Y?
128 "0" ;Number zero
129 X>Y?
130 XROM 29,01 ;ACA
131 CLA
132 ARCL Y
133 XROM 29,01 ;ACA
134 RCL 00
135 RCL 06
136 INT
137 X=Y?
```

```

138 RTN
139 5
140 XROM 29,23 ;SKPCOL
141 RTN
142 LBL 01
143 "A\28" ;A, left parenthesis
144 RCL 05
145 INT
146 ARCL X
147 ">"," ;Append comma
148 RCL 06
149 INT
150 ARCL X
151 ">\29=" ;Append right parenthesis, equal sign
152 RDN
153 RDN
154 ARCL X
155 AVIEW
156 TONE 0
157 RTN
158 LBL 16
159 RCL 01
160 E
161 -
162 ABS
163 X=0?
164 RCL 00
165 STO 01
166 RCL 02
167 E
168 -
169 ABS
170 X=0?
171 RCL 00
172 STO 02
173 XEQ 15
174 END

```

```

0114C000F5004D4153518FA80CFC4D41474943205351554152
457EA90C8F9C00A91D05FA4F442044494D3E33203F9F078E30
12436967B5002083511B40124342F453554D3D9B737E89201B
1343361B4035F75354415254203F8E8383201A114043681140
3111412042413220511B134333E0000F082012411B13433406
E000109604B600E00003B800049605B300AC37A74AF5524541
4459868E0320211B40451B31202212404541665432E0000F85
CF0F9603779606B100AC37A74A201B13431B40360122211B41
204240AD37B200111045F13045A741879B72A7412026687885
15A7578502F2412825689B73F27F2C26689B73F37F293D7575
9B737E9F0085CF10211B4161672031221B4161672032E0000F
C0000D55

```

276 BYTES

# HP-41C Magic Squares by Gino Matthys PPC V9 N7 P26 Oct-Nov 1982

Program Registers Needed: 40

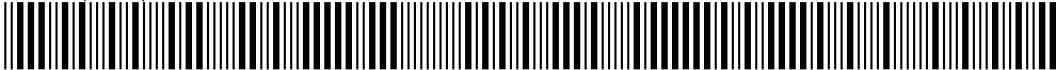
Row 1 (1 - 4)



Row 2 (4 - 6)



Row 3 (6 - 11)



Row 4 (11 - 18)



Row 5 (19 - 28)



Row 6 (28 - 37)



Row 7 (38 - 43)



Row 8 (44 - 55)



Row 9 (56 - 65)



Row 10 (66 - 73)



Row 11 (74 - 80)



Row 12 (80 - 87)



Row 13 (88 - 100)



Row 14 (101 - 107)



Row 15 (108 - 117)



Row 16 (118 - 127)



# HP-41C Magic Squares by Gino Matthys PPC V9 N7 P26 Oct-Nov 1982

Row 17 (128 - 136)



Row 18 (137 - 146)



Row 19 (146 - 152)



Row 20 (153 - 162)



Row 21 (163 - 173)



Row 22 ( 174 )

