

HP-41C Quicksort Program by Steve Wandzura
PPC Calculator Journal V7 N4 P12 May 1980

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01 LBL "QSORT2" ;Quicksort Program
02 STO M ;Lowest register in Y
03 X<>Y
04 INT
05 DSE X
06 LBL 00
07 1.001 ;From NOP V7N5P2
08 GTO 00
09 LBL "QSORT" ;Quicksort Program
10 STO M ;Lowest Register is X+1
11 FRC
12 1001
13 LBL 00
14 *
15 E
16 +
17 STO N
18 E3
19 STO 00
20 RCL M
21 STO IND Z
22 LBL 15
23 RCL IND N
24 INT
25 LASTX
26 FRC
27 RCL 00
28 *
29 RCL X
30 RCL Z
31 -
32 15
33 X>Y?
34 GTO 16
35 RDN
36 RDN
37 RCL IND X
38 RCL IND Z
39 +
40 2
41 /
42 LBL 04
43 RCL IND Y
44 X<=Y?
45 GTO 05
46 RDN
47 LBL 10
48 DSE Y
49 RDN
50 X=Y?
51 GTO 06
52 R^
53 GTO 04
54 LBL 05
55 RDN
56 LBL 07
57 RCL IND Z
58 X>Y?
59 GTO 08
60 ISG T
61 LBL 00
62 RDN
63 RDN
64 X=Y?
65 GTO 06
66 R^
67 GTO 07
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68 LBL 08
69 X<> IND Z
70 STO IND T
71 RDN
72 GTO 10
73 LBL 09
74 RDN
75 X<> IND N
76 ENTER
77 RTN
78 LBL 06
79 RCL IND N
80 FRC
81 RCL Z
82 E
83 +
84 +
85 X<> IND N
86 INT
87 LASTX
88 FRC
89 RCL O
90 *
91 LASTX
92 1/X
93 R^
94 *
95 ST+ T
96 X<> L
97 ST+ X
98 -
99 +
100 X<0?
101 XEQ 09
102 ISG N
103 LBL 00
104 RDN
105 STO IND N
106 GTO 15
107 LBL 16
108 DSE N
109 GTO 15
110 RCL M
111 LBL "INSERT" ;Insertion Sort Routine
112 STO M
113 E
114 +
115 RCL X
116 2
117 -
118 INT
119 E3
120 /
121 LBL 01
122 FRC
123 E
124 -
125 RCL IND Y
126 RCL Z
127 INT
128 ST+ Z
129 LBL 02
130 RDN
131 RCL IND Y
132 X<=Y?
133 GTO 03
134 ISG Z
135 LBL 00
136 STO IND Z
137 DSE Z

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138 DSE Z
139 GTO 02
140 LBL 03
141 ISG Z
142 LBL 00
143 RDN
144 STO IND Y
145 RDN
146 ISG Y
147 GTO 01
148 RCL M
149 CLA
150 END

00FCC000F70051534F52543291757168977301111A101011B1
00C000F60051534F52549175691110101101421B4091761B13
30907591F1CF0F90F668766920429073907141111545D00010
757590F390F14012430590F246B600750B97727578B70074B5
0006750890F145B900967001757578B70074B80009CEF191F0
75BB000A75CEF683850790F66990711B4040CEF66876699077
42766074429270CE749273414066E000099676017591F6D000
0FCF109776D0000F9075C000F700494E534F525491751B4090
731241681B134302691B4190F29071689271037590F246B400
96710191F197719771B300049671017591F2759672B2009075
87C0000DF5

252 BYTES

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Program Registers Needed: 36

Row 1 (1 - 3)



Row 2 (4 - 9)



Row 3 (9 - 12)



Row 4 (12 - 21)



Row 5 (21 - 30)



Row 6 (30 - 38)



Row 7 (38 - 48)

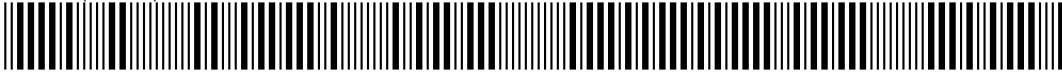


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Row 8 (48 - 57)



Row 9 (58 - 67)



Row 10 (67 - 75)



Row 11 (76 - 85)



Row 12 (86 - 96)



Row 13 (96 - 104)



Row 14 (105 - 110)



Row 15 (110 - 112)



Row 16 (113 - 123)



Row 17 (124 - 132)



Row 18 (133 - 139)



Row 19 (140 - 148)



Row 20 (148 - 150)

