

HP-41C Quicksort I QS Routine by Michael Hale  
PPC Calculator Journal V7 N2 P40 Feb-Mar 1980

```
01 LBL "QS" ;Quicksort I Main Routine
02 CF 04
03 RCL 00
04 1 E3
05 /
06 1
07 +
08 ST+ 00
09 STO IND 00
10 LBL 15
11 RCL IND 00
12 VIEW X
13 INT
14 LASTX
15 FRC
16 1 E3
17 *
18 STO Z
19 X<>Y
20 -
21 15
22 X>Y?
23 XEQ "IST" ;Insertion Sort Subroutine
24 FS?C 04
25 GTO 24
26 RCL IND Z
27 R^
28 RCL L
29 X<>Y
30 LBL 16
31 R^
32 CLX
33 RCL IND Z
34 R^
35 X<=Y?
36 GTO 18
37 LBL 17
38 ISG T
39 STOP
40 RDN
41 RDN
42 X<=Y?
43 GTO 23
44 GTO 16
45 LBL 18
46 STO IND T
47 X<>Y
48 STO IND Z
49 GTO 20
50 LBL 19
51 R^
52 RCL IND Y
53 X<=Y?
54 GTO 21
55 LBL 20
56 DSE Z
57 CLA
58 RDN
59 RDN
60 X<=Y?
61 GTO 23
62 GTO 19
63 LBL 21
64 STO IND T
65 X<>Y
66 STO IND Z
67 GTO 17
```

```

68 LBL 22
69 1 E3
70 /
71 +
72 X<> IND 00
73 ISG 00
74 STOP
75 STO IND 00
76 ENTER
77 RTN
78 LBL 23
79 1
80 -
81 RCL IND 00
82 INT
83 X<>Y
84 X>Y?
85 XEQ 22
86 RDN
87 RDN
88 1
89 +
90 RCL IND 00
91 FRC
92 1 E3
93 *
94 X>Y?
95 XEQ 22
96 LBL 24
97 DSE 00
98 GTO 15
99 "DONE"
100 AVIEW
101 BEEP
102 STOP
103 END

```

```

00B8C000F3005153A90420111B1343114092009180CF0F9080
9873687669111B1342917171411115451EF3495354AA04D000
1890F174907471CF10747790F17446D00012CF119670847575
46D00017D00010CF1291F07191F1D00014CF137490F246D000
15CF14977187757546D00017D00013CF1591F07191F1D00011
CF16111B134340CE8096008491808385CF1711419080687145
E0001675751140908069111B134245E00016CF189700D0000F
F4444F4E457E8684C0000D1C

```

184 BYTES

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```

01 LBL "IST" ;Insertion Sort Subroutine
02 SF 04
03 ISG IND 00
04 LBL 15
05 RCL IND 00
06 RCL IND X
07 X<>Y
08 1
09 -
10 INT
11 LBL 16
12 X<>Y
13 RCL IND Y
14 X<=Y?
15 GTO 17
16 ISG Z
17 BEEP
18 STO IND Z
19 RDN

```

```
20 X<>Y
21 2
22 -
23 X#0?
24 GTO 16
25 STO Z
26 LBL 17
27 CLX
28 1
29 ST+ Z
30 RDN
31 STO IND Y
32 ISG IND 00
33 GTO 15
34 END
```

```
003EC000F400495354A8049680CF0F908090F371114168CF10
7190F246D0001196718691F17571124163D000109171CF1177
1192717591F29680D0000FC0000DEB
```

62 BYTES

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Program Registers Needed: 27

Row 1 (1 - 5)



Row 2 (6 - 13)



Row 3 (14 - 22)



Row 4 (23 - 27)



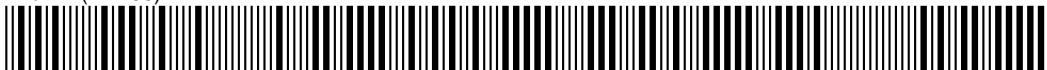
Row 5 (28 - 36)



Row 6 (36 - 44)



Row 7 (44 - 50)



Row 8 (50 - 57)



Row 9 (58 - 64)



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Row 10 (65 - 71)



Row 11 (72 - 80)



Row 12 (81 - 90)



Row 13 (90 - 97)



Row 14 (97 - 103)



Row 15 ( 103 )



# HP-41C Quicksort I IST Subr. by Michael Hale PPC V7 N2 P40 Feb-Mar 1980

Program Registers Needed: 9

Row 1 (1 - 4)



Row 2 (5 - 13)



Row 3 (14 - 22)



Row 4 (23 - 30)



Row 5 (31 - 34)

