

HP-41C Calendar Calculations by Walter W. Steffen
PPC Calculator Journal Vol 8 No 5 Pg 26 July 1981

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01 LBL b      ;2nd Julian Date after 10/4/1582
02 SF 00
03 LBL B      ;2nd Other Calendar Date -> JDN
04 SF 01
05 GTO A
06 LBL "JUL"  ;Julian Day Number
07 LBL a      ;1st Julian Date after 10/4/1582
08 SF 00
09 LBL A      ;1st Other Calendar Date -> JDN
10 "MM.DDYYYY?"
11 PROMPT
12 X<0?
13 SF 03
14 ABS
15 INT
16 STO 00
17 LASTX
18 FRC
19 E2
20 *
21 INT
22 STO 01
23 LASTX
24 FRC
25 E2
26 *
27 FS? 03
28 CHS
29 STO 02
30 RCL 01
31 E-2
32 *
33 RCL 00
34 +
35 E-4
36 *
37 +
38 15.821015
39 X>Y?
40 SF 00
41 2
42 RCL 00
43 X>Y?
44 GTO 00
45 12
46 ST+ 00
47 .01
48 ST- 02
49 LBL 00
50 .01
51 FS? 03
52 ST+ 02
53 1
54 RCL 00
55 +
56 30.6001
57 *
58 INT
59 RCL 01
60 +
61 36525
62 RCL 02
63 *
64 .75
65 FC?C 03
66 CLX
67 -
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68 INT
69 +
70 FC?C 00
71 XEQ 02
72 1720995
73 +
74 FC? 01
75 STO 03
76 FS?C 01
77 STO 04
78 FIX 0
79 "JD="
80 ARCL X
81 AVIEW
82 STOP
83 LBL H      ;Calculate DOW for 2 JDN's
84 RCL 03
85 RCL 04
86 -
87 ABS
88 CLA
89 ARCL X
90 ">" DAYS"
91 AVIEW
92 STOP
93 LBL 02
94 RCL 02
95 INT
96 -
97 RCL 02
98 4
99 /
100 INT
101 +
102 2
103 +
104 RTN
105 LBL 04
106 SF 00
107 38
108 +
109 RTN
110 LBL e      ;JDN -> Julian Date after 10/4/1582 by prompt
111 SF 02
112 LBL E      ;JDN -> Other Calendar Date by prompt
113 "JUL DAY=?"
114 PROMPT
115 GTO 05
116 LBL d      ;JDN -> 2nd Julian Date after 10/4/1582
117 SF 02
118 LBL D      ;JDN -> 2nd Other Calendar Date
119 SF 01
120 GTO C
121 LBL c      ;JDN -> 1st Julian Date after 10/4/1582
122 SF 02
123 LBL C      ;JDN -> 1st Other Calendar Date
124 RCL 03
125 FS?C 01
126 RCL 04
127 LBL 05
128 CF 29
129 68569
130 +
131 1789993
132 X>Y?
133 SF 03
134 577737
135 +
136 X<>Y
137 X<Y?

```

138 XEQ 04
139 FS?C 02
140 XEQ 04
141 STO Y
142 36524.25
143 .75
144 FC?C 00
145 CLX
146 +
147 STO 00
148 /
149 INT
150 STO 02
151 RCL 00
152 *
153 .75
154 +
155 INT
156 -
157 STO Y
158 1
159 +
160 365.25025
161 /
162 INT
163 STO 00
164 365.25
165 *
166 INT
167 -
168 31
169 +
170 STO Y
171 30.59
172 STO T
173 /
174 INT
175 STO Z
176 R^
177 *
178 INT
179 -
180 STO 01
181 RDN
182 11
183 /
184 INT
185 ST+ 00
186 RDN
187 XEQ 01
188 >". "
189 FIX 0
190 ARCL 01
191 >". "
192 RCL 02
193 49
194 -
195 E2
196 *
197 RCL 00
198 +
199 1
200 FC? 03
201 CLX
202 -
203 ABS
204 ARCL X
205 FS?C 03
206 XEQ 08
207 SF 29

```
208 AVIEW
209 RTN
210 LBL G      ;2nd Date -> DOW
211 SF 01
212 LBL "DOW"  ;Day of the Week
213 LBL F      ;1st Date -> DOW
214 RCL 03
215 FS?C 01
216 RCL 04
217 7
218 MOD
219 X=0?
220 "MON"
221 6
222 X=Y?
223 "SUN"
224 DSE X
225 X=Y?
226 "SATUR"
227 DSE X
228 X=Y?
229 "FRI"
230 DSE X
231 X=Y?
232 "THURS"
233 DSE X
234 X=Y?
235 "WEDNES"
236 DSE X
237 X=Y?
238 "TUES"
239 ">"DAY"
240 AVIEW
241 RTN
242 LBL 08
243 ">"B.C."
244 RTN
245 LBL 01
246 12
247 X=Y?
248 "FEB"
249 DSE X
250 X=Y?
251 "JAN"
252 DSE X
253 X=Y?
254 "DEC"
255 DSE X
256 X=Y?
257 "NOV"
258 DSE X
259 X=Y?
260 "OCT"
261 DSE X
262 X=Y?
263 "SEP"
264 DSE X
265 X=Y?
266 "AUG"
267 DSE X
268 X=Y?
269 "JUL"
270 DSE X
271 X=Y?
272 "JUN"
273 DSE X
274 X=Y?
275 "MAY"
276 DSE X
277 X=Y?
```

278 "APR"
279 DSE X
280 X=Y?
281 "MAR"
282 END

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577 BYTES

HP-41C Calendar Calculations by Walter W. Steffen PPC V8 N5 P26 July 1981

Program Registers Needed: 83

Row 1 (1 - 6)



Row 2 (6 - 10)



Row 3 (10 - 13)



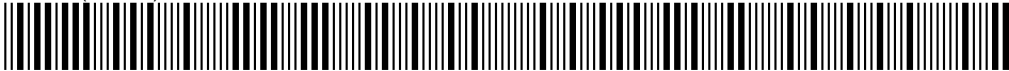
Row 4 (14 - 25)



Row 5 (25 - 34)



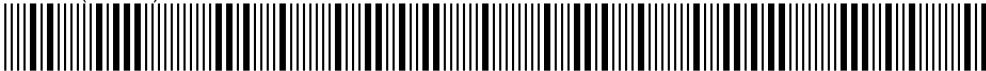
Row 6 (35 - 38)



Row 7 (38 - 46)



Row 8 (47 - 52)



Row 9 (53 - 59)



Row 10 (60 - 65)



Row 11 (66 - 72)



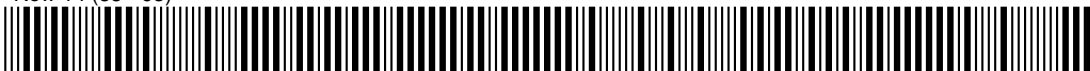
Row 12 (72 - 79)



Row 13 (79 - 87)



Row 14 (88 - 93)



Row 15 (94 - 106)



Row 16 (106 - 113)



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Row 17 (113 - 116)



Row 18 (117 - 122)



Row 19 (123 - 129)



Row 20 (129 - 134)



Row 21 (134 - 139)



Row 22 (140 - 142)



Row 23 (143 - 151)



Row 24 (152 - 160)



Row 25 (160 - 164)



Row 26 (164 - 171)



Row 27 (171 - 179)



Row 28 (180 - 188)



Row 29 (188 - 193)



Row 30 (193 - 203)



Row 31 (204 - 210)



Row 32 (211 - 215)



Row 33 (215 - 223)



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Row 34 (223 - 227)



Row 35 (228 - 232)



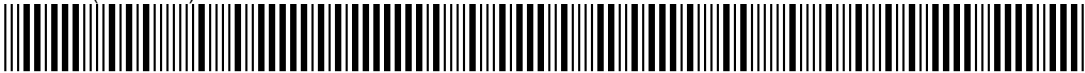
Row 36 (232 - 236)



Row 37 (237 - 241)



Row 38 (242 - 248)



Row 39 (248 - 253)



Row 40 (254 - 258)



Row 41 (259 - 264)



Row 42 (264 - 269)



Row 43 (270 - 275)



Row 44 (275 - 281)



Row 45 (281 - 282)

