

HP-41C Public Key Cypher Program by Read Predmore  
PPC Calculator Journal V9 No 4 Pg 84 May-Jul 1982  
Requires PPC ROM module for CD, DC & QR functions

```
01 LBL "CYPHER" ;Encode and Decode Text
02 "READ "
03 >"PREDMORE"
04 >" 27.4.82"
05 PROMPT
06 LBL C ;Enter Text
07 CF 18
08 "ENTER TEXT"
09 AVIEW
10 CLA
11 AON
12 STOP
13 AVIEW
14 AOFF
15 14.020
16 STO 11
17 LBL 17
18 RCL d
19 CF 10
20 XROM 10,35 ;CD - PPC ROM Character to Decimal
21 128
22 *
23 XROM 10,35 ;CD - PPC ROM Character to Decimal
24 +
25 X<>Y
26 STO d
27 X<>Y
28 STO IND 11
29 XEQ 33
30 VIEW IND 11
31 ISG 11
32 GTO 17
33 RTN
34 LBL D ;Decode Cyphertext
35 CF 19
36 "DECODING"
37 AVIEW
38 20.013
39 STO 11
40 CLA
41 LBL 18
42 XEQ 44
43 128
44 XROM 10,54 ;QR - PPC ROM Quotient Remainder
45 XROM 10,11 ;DC - PPC ROM Decimal to Character
46 XROM 10,11 ;DC - PPC ROM Decimal to Character
47 AVIEW
48 DSE 11
49 GTO 18
50 AVIEW
51 RTN
52 LBL 33
53 FS? 18
54 GTO 77
55 SF 18
56 CF 19
57 RCL 04
58 GTO 10
59 LBL 44
60 FS? 19
61 GTO 77
62 CF 18
63 SF 19
64 RCL 06
65 LBL 10
66 17
```

```

67 X<>Y
68 2
69 LBL 11
70 CF IND Z
71 XROM 10,54 ;QR - PPC ROM Quotient Remainder
72 X#0?
73 SF IND Z
74 X<> L
75 DSE Z
76 GTO 11
77 LBL 77
78 1.017
79 STO 00
80 RCL 03
81 RCL IND 11
82 1
83 LBL 12
84 X^2
85 RCL Z
86 MOD
87 FC? IND 00
88 GTO 13
89 RCL Y
90 *
91 RCL Z
92 MOD
93 LBL 13
94 ISG 00
95 GTO 12
96 STO IND 11
97 RTN
98 END

```

```

00E0C000F700435950484552F55245414420F97F505245444D
4F5245F97F2032372E342E38328ECF68A912FA454E54455220
544558547E878C847E8B11141A1012103BCF11907EA90AA2A3
11121842A2A34071917E71918BE00021988B960BD0001185CF
69A913F84445434F44494E477E12101A1011133B87CF12E000
2C111218A2B6A28BA28B7E970BD000127E85CF21AC12D0004D
A812A91324BB00CF2CAC13D0004DA912A813260B111771120C
A9F1A2B663A8F1CE749771BC00CF4D111A1011173023908B11
0D5190714BAD80BE0090724290714B0E9600BD00918B85C000
0D9E

```

224 BYTES

## HP-41C Public Key Cypher by Read Predmore PPC V9 N4 P84 May-Jul 1982

Program Registers Needed: 32

Row 1 (1 - 2)



Row 2 (2 - 3)



Row 3 (4 - 6)



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Row 4 (7 - 8)



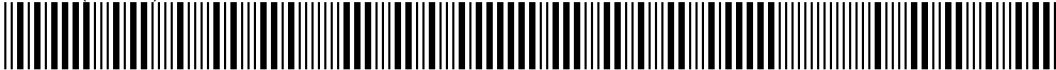
Row 5 (9 - 16)



Row 6 (17 - 23)



Row 7 (23 - 30)



Row 8 (31 - 36)



Row 9 (36 - 38)



Row 10 (39 - 45)



Row 11 (45 - 52)



Row 12 (53 - 59)



Row 13 (59 - 66)



Row 14 (66 - 74)



Row 15 (75 - 80)



Row 16 (81 - 89)



Row 17 (89 - 97)



Row 18 ( 98 )

