Least Common Multiple with User Input for the Casio fx-5800P Calculator https://github.com/slugrustle/fx-5800P progs

```
0→DimZ:
                                                             Then Cls:
                                                             "OVERFLOW":
  27→DimZ:
                                                   50
  0→A:
                                                             Stop:
                                                   51
   "ENTER -1 AFTER LAST INPUT":
                                                         IfEnd:
                                                   52
  While 1:
                                                   53 Next:
      "NUMBER"?→B:
                                                      Int(D÷3)→E:
                                                   55 D-3×E>0⇒E+1→E:
      B=-1⇒Break:
      If B≠Int(B):
                                                   56 1→C:
                                                   57 Lbl 1:
         Then Cls:
9
         "NUMBER MUST BE AN INTEGER":
                                                   58 Cls:
10
                                                   59 Locate 1.1.B:
         Stop:
11
                                                   60 Locate 12,1,C:
      IfEnd:
12
      If B<1 Or B≥1x1010:
                                                   61 Locate 13,1,":":
13
                                                   62 Locate 14,1,E:
         Then Cls:
14
         "NUMBER MUST BE >0 And <1x1010":
                                                   _{63} 3×(C-1)+1→A:
15
                                                   64 Locate 1,2,Z[A]:
         Stop:
16
      IfEnd:
                                                   65 A+1≤D⇒Locate 1,3,Z[A+1]:
17
                                                      A+2≤D⇒Locate 1,4,Z[A+2]:
      A+1→A:
18
      If A≤27:
                                                      While 1:
                                                   67
19
         Then B→Z[A]:
                                                         Getkey→F:
                                                   68
20
      Else Cls:
                                                         If F=34 Or F=73:
21
                                                   69
         "SUPPORTS AT MOST27 NUMBERS":
                                                             Then Cls:
22
                                                             "DONE":
         Stop:
23
                                                   71
      IfEnd:
                                                             Stop:
  WhileEnd:
                                                         IfEnd:
25
                                                   73
                                                         If F=84 Or F=86 Or F=77 Or F=47:
   If A<2:
26
                                                   74
      Then Cls:
                                                             Then C+1→C:
27
                                                   75
      "REQUIRES 2 OR MORE NUMBERS":
                                                             C>E⇒1→C:
28
                                                   76
      Stop:
                                                             Goto 1:
                                                   77
29
   IfEnd:
                                                         IfEnd:
                                                   78
  A→D:
                                                         If F=83 Or F=85 Or F=67:
                                                   79
   Z[D]→B:
                                                             Then C-1→C:
                                                   80
   For D-1→A To 1 Step -1:
                                                             C<1⇒E→C:
                                                   81
33
      B→E:
                                                             Goto 1:
                                                   82
34
      Z[A]→C:
                                                         IfEnd:
35
                                                   83
      While B≠C:
                                                   84 WhileEnd
         If B≥C:
37
                                                      Lines 1-2: Set up memory for extra
            Then B-C\times Int(B\div C)\rightarrow B:
                                                      variables Z[\alpha] where \alpha \in [1,27].
            B=0⇒C→B:
39
         Else C-B×Int(C÷B)→C:
                                                      Lines 3-31: User input of arguments for
40
            C=0⇒B→C:
                                                      LCM(Z[1], ..., Z[D]). D \in [2,27].
41
         IfEnd:
42
                                                      Lines 32-53: Evaluate B = LCM(Z[1],
      WhileEnd:
43
                                                      ..., Z[D]). Uses LCM(\beta, \gamma) =
      If E≥Z[A]:
44
                                                      (\beta \times \gamma) \div GCD(\beta, \gamma) = (\beta \div GCD(\beta, \gamma)) \times \gamma =
         Then (E÷B)×Z[A]→B:
                                                      (\gamma \div GCD(\beta, \gamma)) \times \beta
      Else (Z[A]÷B)×E→B:
46
      IfEnd:
                                                      Lines 54-84: Display result and inputs.
47
      If B≥1x1010:
48
                                                      A: Index into extra variable memory.
```

B: User input and LCM evaluation.

C: LCM evaluation and number of displayed input argument page.

D: Number of input arguments.

E: LCM evaluation and number of input argument display pages (3 inputs per page).

F: Identifier of most recently pressed key.

Written in 2018 by Ben Tesch. To the extent possible under law, the author has dedicated all copyright and related and neighboring rights to this software to the public domain worldwide. This software is distributed without any warranty. Published under the CCO 1.0 Universal Public Domain Dedication; see http://creativecommons.org/publicdomain/zero/1.0/