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

```
0→DimZ:
27→DimZ:
0→A:
"ENTER -1 AFTER  LAST INPUT":
While 1:
  "NUMBER"?→B:
  B=-1⇒Break:
  If B≠Int(B):
    Then Cls:
    "NUMBER MUST BE  AN INTEGER":
    Stop:
  IfEnd:
  If B<1 Or B≥1X10 10:
    Then Cls:
    "NUMBER MUST BE  >0 And <1X10 10":
    Stop:
  IfEnd:
  A+1→A:
  If A≤27:
    Then B→Z[A]:
  Else Cls:
    "SUPPORTS AT MOST27 NUMBERS":
    Stop:
  IfEnd:
WhileEnd:
If A<2:
  Then Cls:
  "REQUIRES 2 OR   MORE NUMBERS":
  Stop:
IfEnd:
A→D:
Z[D]→B:
For D−1→A To 1 Step -1:
  B→E:
  Z[A]→C:
  While B≠C:
    If B≥C:
      Then B−C×Int(B÷C)→B:
      B=0⇒C→B:
    Else C−B×Int(C÷B)→C:
      C=0⇒B→C:
    IfEnd:
  WhileEnd:
  If E≥Z[A]:
    Then (E÷B)×Z[A]→B:
  Else (Z[A]÷B)×E→B:
  IfEnd:
  If B≥1X10 10:
    Then Cls:
    "OVERFLOW":
    Stop:
  IfEnd:
Next:
Int(D÷3)→E:
D−3×E>0⇒E+1→E:
1→C:
Lbl 1:
Cls:
Locate 1,1,B:
Locate 12,1,C:
Locate 13,1,":":
Locate 14,1,E:
3×(C−1)+1→A:
Locate 1,2,Z[A]:
A+1≤D⇒Locate 1,3,Z[A+1]:
A+2≤D⇒Locate 1,4,Z[A+2]:
While 1:
  Getkey→F:
  If F=34 Or F=73:
    Then Cls:
    "DONE":
    Stop:
  IfEnd:
  If F=84 Or F=86 Or F=77 Or F=47:
    Then C+1→C:
    C>E⇒1→C:
    Goto 1:
  IfEnd:
  If F=83 Or F=85 Or F=67:
    Then C−1→C:
    C<1⇒E→C:
    Goto 1:
  IfEnd:
WhileEnd
```

Lines 1–2: Set up memory for extra variables Z[α] where α∈[1,27].

Lines 3–31: User input of arguments for LCM(Z[1], ..., Z[D]). D∈[2,27].

Lines 32–53: Evaluate B = LCM(Z[1], ..., Z[D]). Uses LCM(β,γ) = (β×γ)÷GCD(β,γ) = (β÷GCD(β,γ))×γ = (γ÷GCD(β,γ))×β

Lines 54–84: Display result and inputs.

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.