```
Filename:FACTORG
[[0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0]]→Mat Z↵
"NUMBER"?→F↵
If F<1 Or F≥1E10↵
Then "NUMBER MUST BE  >=1  And <1Exp10"↵
Stop↵
IfEnd↵
If F≠Int (F)↵
Then "NUMBER MUST BE  AN INTEGER"↵
Stop↵
IfEnd↵
For 1→E To 22↵
0→Mat Z[1,E]↵
Next↵
0→Mat Z[1,1]↵
0→Mat Z[1,12]↵
0→E↵
F→A↵
Int (√(A))→C↵
2→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
3→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
5→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
7→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
11→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
While 1↵
B+2→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+4→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+2→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+4→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+6→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+2→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+6→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+4→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+2→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+4→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+6→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+6→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+2→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+6→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+4→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+2→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+6→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+4→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+6→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+8→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+4→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+2→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+4→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+2→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+4→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+8→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+6→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
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B+4→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+6→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+2→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+4→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+6→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+2→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+6→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+6→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+4→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+2→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+4→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+6→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+2→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+6→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+4→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+2→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+4→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+2→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+10→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+2→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
B+10→B:A÷B→D:Frac (D)=0⇨Prog "WFSUB":B>C⇨Goto 1↵
WhileEnd↵
↵
Lbl 1↵
If A>1↵
Then Isz E↵
A→Mat Z[1,E]↵
1→A↵
1→Mat Z[1,E+11]↵
IfEnd↵
Int (E÷6)→D↵
E-6×D>0⇨Isz D↵
1→C↵
Lbl 2↵
ClrText↵
Locate 1,1,F↵
Locate 12,1,C↵
Locate 13,1,":"↵
Locate 14,1,D↵
6×(C-1)+1→B↵
Locate 1,2,Mat Z[1,B]↵
Locate 11,2,"^("↵
Locate 13,2,Mat Z[1,B+11]↵
Locate 16,2,")"↵
If B+1≤E↵
Then Locate 1,3,Mat Z[1,B+1]↵
Locate 11,3,"^("↵
Locate 13,3,Mat Z[1,B+12]↵
Locate 16,3,")"↵
IfEnd↵
If B+2≤E↵
Then Locate 1,4,Mat Z[1,B+2]↵
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Locate 11,4,"^("↲
Locate 13,4,Mat Z[1,B+13]↲
Locate 16,4,")"↲
IfEnd↲
If B+3≤E↲
Then Locate 1,5,Mat Z[1,B+3]↲
Locate 11,5,"^("↲
Locate 13,5,Mat Z[1,B+14]↲
Locate 16,5,")"↲
IfEnd↲
If B+4≤E↲
Then Locate 1,6,Mat Z[1,B+4]↲
Locate 11,6,"^("↲
Locate 13,6,Mat Z[1,B+15]↲
Locate 16,6,")"↲
IfEnd↲
If B+5≤E↲
Then Locate 1,7,Mat Z[1,B+5]↲
Locate 11,7,"^("↲
Locate 13,7,Mat Z[1,B+16]↲
Locate 16,7,")"↲
IfEnd↲
'Stop↲
While Getkey:WhileEnd↲
Do↲
Getkey→K↲
LpWhile K=0↲
While Getkey↲
WhileEnd↲
0→M↲
If K=47 Or K=44↲
Then 1→M↲
Else If K=27 Or K=37 Or K=31↲
Then 2→M↲
Else If K=28 Or K=38 Or K=41↲
Then 3→M↲
Else Goto 2↲
IfEnd:IfEnd↲
IfEnd↲
If M=1↲
Then ClrText↲
"DONE"↲
Stop↲
Else If M=2↲
Then Isz C↲
C>D⇨1→C↲
Goto 2↲
Else If M=3↲
Then C-1→C↲
C<1⇨D→C↲
Goto 2↲
IfEnd:IfEnd↲
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IfEnd↵
WhileEnd↵
[0]→Mat Z
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