

# 3つ子-自然数大全10000

蛭子井博孝作成

## 3つ子素数とH次素数と累乗数とレベル数

$$NN(6 = Level(1)_{No(1)}) \\ G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[1]}\right) \\ StopPrime(5)$$

$$NN(8 = Level(2)_{No(1)}) \\ G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[2]}\right) \\ G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[2]}\right) \\ StopPrime(5)$$

$$12_{fac^3 sum} = [[2]^3, [2]^3, [3]^3], 43_{prime} = \{3\} \text{ 次の素数} \\ 12_{fac^5 sum} = [[2]^5, [2]^5, [3]^5], 307_{prime} = \{5\} \text{ 次の素数} \\ 12_{fac^6 sum} = [[2]^6, [2]^6, [3]^6], 857_{prime} = \{6\} \text{ 次の素数} \\ 12_{fac^9 sum} = [[2]^9, [2]^9, [3]^9], 20707_{prime} = \{9\} \text{ 次の素数} \\ 14_{fac sum} = [[2], [7]] = [3]^2, \text{ 累乗}_{No(1)} = [E=1, H=2]$$

$$NN(14 = Level(3)_{No(1)}) \\ G\left(14_{Fac(2, 7) SUM=9} = LV \frac{\{3\}}{[3]}\right) \\ G\left(9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[3]}\right) \\ G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[3]}\right) \\ StopPrime(5)$$

幾何数学研究センター

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> # Number = p1·p2···pn, p1e + p2e + ... + pne = Xh by H·E :2020 - 8 - 3 :
> # LEVEL Number :'2021-8-4: 自然数1000の3つ子素数とH次素数時と累乗数とレベル数:
> print( ) : with(StringTools) : print("蛭子井博孝", FormatTime("%Y-%m-%d-(%or)")) :
    print(蛭子井博孝の自然数1000までの素数と累乗数とレベル数の対応表,
        FormatTime("%Y-%m-%d-(%or)")) :for e from 1 to 10 do f || e := 0 :od: c32 := 0 :
        c33 := 0 :for j from 1 to 300 do pc || j := 0 :od:for j from 1 to 12 do H || j := 0 : Lc
        || j := 0 :od:for n from 2 to 10000 do if n mod 1000 = 0 then print(NN={n}, DONE)
        fi: fs := 0 : ft := n : fp := 2 : nc := 0 :for p from 1 to n do if ft mod fp = 0 then nc :=
        nc + 1 : ft :=  $\frac{ft}{fp}$  : FT || n || nc := fp : fs := fs + fp else fp := nextprime(fp) fi:od: FS
        || n := fs : FNC || n := nc : if isprime(n) then pp || 1 := n :for j from 2 to 3 do pp || j :=
        nextprime(pp || (j - 1)) :od:if pp || 2 - pp || 1 = pp || 3 - pp || 2 then kk := pp || 2 - pp
        || 1 : pc || kk := pc || kk + 1 : if pc || kk ≠ 0 and pc || kk mod 10 ≤ 2 then print( ) :
        print(3 つ子 [[ (pp || 1) [P[1]], [kk], (pp || 2) [P[2]], [kk], (pp || 3) [P[3]] ]])
        = [KK([kk]) = No(pc || kk)] : print( ) fi fi: pp || 1 := nextprime(pp || 3) :for j from 2
        to 3 do pp || j := nextprime(pp || (j - 1)) :od:if pp || 2 - pp || 1 = pp || 3 - pp || 2 = kk
        then c32 := c32 + 1 : if c32 ≠ 0 and c32 mod 10 ≤ 2 then print( ) :
        print(3 つ子2連 [[ (pp || 1) [P[1]], [kk], (pp || 2) [P[2]], [kk], (pp || 3) [P[3]] ]])
        = [KK([kk]) = No(pc || kk), 2 Ren] : print( ) fi fi fi: if not isprime(n) then fc := 0 :
        fe := 0 :for e from 1 to 10 do fs := 0 : for j from 1 to FNC || n do fp := FT || n || j : fs :=
        fs + fpe :od:if isprime(fs) then f || e := f || e + 1 :if f || e = 1 then print( n [ facesum
        = [seq([FT || n || j]e, j = 1 .. FNC || n) ]], fs[prime] = {e} 次の素数 ) fi fi: for h from 2
        to 20 do if floor( evalf( fs $\frac{1}{h}$  ) ) = fs and FNC || n ≠ 1 then fc := fc + 1 : if n ≠ 1
        then print( n [ facesum = [seq([ FT || n || j ]e, j = 1 .. FNC || n) ] ] = [ simplify( fs $\frac{1}{h}$  ) ]h,
        累乗[No(fc)] = [E = e, H = h] ) fi fi : od:od fi:if n ≠ 4 and not isprime(n) then H

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1 := n : fst := H || 1 : for k from 2 to 12 do if not isprime( fst ) then fst := FS || fst : H
k := fst else H || k := fst :break if:od: kc := k - 2 : Lc || kc := Lc || kc + 1 :if Lc || kc
mod 100 ≤ 1 then print ( ) : print ( NN ( n = Level ( kc ) [ No ( Lc || kc ) ] ) ) :for j from 1
to k - 2 do N := H || j : print ( G ( N [ Fac ( seq ( FT || N || jj , jj = 1 .. FNC || N ) ) SUM = H || ( j
+ 1 ) ] = LV [ { k - j - 1 } [ k - 2 ] ] ) ) :od: print ( StopPrime ( H || k ) ) : print ( ) fi fi:od:
print ( 蛭子井博孝の自然数1000までの素数と累乗数とレベル数の対応表,
FormatTime ( "%Y-%m-%d-(%or)" ) ) :

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"蛭子井博孝", "2021-08-05-(01:56:28 AM)"

蛭子井博孝の自然数1000までの素数と累乗数とレベル数の対応表,  
"2021-08-05-(01:56:28 AM)"

$$3 \text{ つ子 } \left[ \begin{matrix} 3 \\ P_1 \end{matrix}, \begin{matrix} [2], 5 \\ P_2 \end{matrix}, \begin{matrix} [2], 7 \\ P_3 \end{matrix} \right] = [KK([2]) = No(1)]$$

$$\begin{aligned}
4_{fac\ sum} &= [[2], [2]] = [2]^2, \text{ 累乗 }_{No(1)} = [E=1, H=2] \\
4_{fac^2\ sum} &= [[2]^2, [2]^2] = [2]^3, \text{ 累乗 }_{No(2)} = [E=2, H=3] \\
4_{fac^3\ sum} &= [[2]^3, [2]^3] = [4]^2, \text{ 累乗 }_{No(3)} = [E=3, H=2] \\
4_{fac^3\ sum} &= [[2]^3, [2]^3] = [2]^4, \text{ 累乗 }_{No(4)} = [E=3, H=4] \\
4_{fac^4\ sum} &= [[2]^4, [2]^4] = [2]^5, \text{ 累乗 }_{No(5)} = [E=4, H=5] \\
4_{fac^5\ sum} &= [[2]^5, [2]^5] = [8]^2, \text{ 累乗 }_{No(6)} = [E=5, H=2] \\
4_{fac^5\ sum} &= [[2]^5, [2]^5] = [4]^3, \text{ 累乗 }_{No(7)} = [E=5, H=3] \\
4_{fac^5\ sum} &= [[2]^5, [2]^5] = [2]^6, \text{ 累乗 }_{No(8)} = [E=5, H=6] \\
4_{fac^6\ sum} &= [[2]^6, [2]^6] = [2]^7, \text{ 累乗 }_{No(9)} = [E=6, H=7] \\
4_{fac^7\ sum} &= [[2]^7, [2]^7] = [16]^2, \text{ 累乗 }_{No(10)} = [E=7, H=2] \\
4_{fac^7\ sum} &= [[2]^7, [2]^7] = [4]^4, \text{ 累乗 }_{No(11)} = [E=7, H=4] \\
4_{fac^7\ sum} &= [[2]^7, [2]^7] = [2]^8, \text{ 累乗 }_{No(12)} = [E=7, H=8] \\
4_{fac^8\ sum} &= [[2]^8, [2]^8] = [8]^3, \text{ 累乗 }_{No(13)} = [E=8, H=3] \\
4_{fac^8\ sum} &= [[2]^8, [2]^8] = [2]^9, \text{ 累乗 }_{No(14)} = [E=8, H=9] \\
4_{fac^9\ sum} &= [[2]^9, [2]^9] = [32]^2, \text{ 累乗 }_{No(15)} = [E=9, H=2]
\end{aligned}$$

$$\begin{aligned}
& {}^4_{fac^9} sum = [[2]^9, [2]^9] = [4]^5, \text{累乗}_{No(16)} = [E=9, H=5] \\
& {}^4_{fac^9} sum = [[2]^9, [2]^9] = [2]^{10}, \text{累乗}_{No(17)} = [E=9, H=10] \\
& {}^4_{fac^{10}} sum = [[2]^{10}, [2]^{10}] = [2]^{11}, \text{累乗}_{No(18)} = [E=10, H=11] \\
& \quad {}^6_{fac} sum = [[2], [3]], {}^5_{prime} = \{1\} \text{ 次の素数} \\
& \quad {}^6_{fac^2} sum = [[2]^2, [3]^2], {}^{13}_{prime} = \{2\} \text{ 次の素数} \\
& \quad {}^6_{fac^4} sum = [[2]^4, [3]^4], {}^{97}_{prime} = \{4\} \text{ 次の素数}
\end{aligned}$$

$$\begin{aligned}
& NN(6 = Level(1)_{No(1)}) \\
& G\left( {}^6_{Fac(2, 3)} SUM=5 = LV \frac{\{1\}}{[1]} \right) \\
& \text{StopPrime}(5)
\end{aligned}$$

$$\begin{aligned}
& NN(8 = Level(2)_{No(1)}) \\
& G\left( {}^8_{Fac(2, 2, 2)} SUM=6 = LV \frac{\{2\}}{[2]} \right) \\
& G\left( {}^6_{Fac(2, 3)} SUM=5 = LV \frac{\{1\}}{[2]} \right) \\
& \text{StopPrime}(5)
\end{aligned}$$

$$\begin{aligned}
& {}^{12}_{fac^3} sum = [[2]^3, [2]^3, [3]^3], {}^{43}_{prime} = \{3\} \text{ 次の素数} \\
& {}^{12}_{fac^5} sum = [[2]^5, [2]^5, [3]^5], {}^{307}_{prime} = \{5\} \text{ 次の素数} \\
& {}^{12}_{fac^6} sum = [[2]^6, [2]^6, [3]^6], {}^{857}_{prime} = \{6\} \text{ 次の素数} \\
& {}^{12}_{fac^9} sum = [[2]^9, [2]^9, [3]^9], {}^{20707}_{prime} = \{9\} \text{ 次の素数} \\
& {}^{14}_{fac} sum = [[2], [7]] = [3]^2, \text{累乗}_{No(1)} = [E=1, H=2]
\end{aligned}$$

$$\begin{aligned}
& NN(14 = Level(3)_{No(1)}) \\
& G\left( {}^{14}_{Fac(2, 7)} SUM=9 = LV \frac{\{3\}}{[3]} \right) \\
& G\left( {}^9_{Fac(3, 3)} SUM=6 = LV \frac{\{2\}}{[3]} \right) \\
& G\left( {}^6_{Fac(2, 3)} SUM=5 = LV \frac{\{1\}}{[3]} \right) \\
& \text{StopPrime}(5)
\end{aligned}$$

$$\begin{aligned}
& {}^{15}_{fac} sum = [[3], [5]] = [2]^3, \text{累乗}_{No(1)} = [E=1, H=3] \\
& {}^{16}_{fac} sum = [[2], [2], [2], [2]] = [2]^3, \text{累乗}_{No(1)} = [E=1, H=3] \\
& {}^{16}_{fac^2} sum = [[2]^2, [2]^2, [2]^2, [2]^2] = [4]^2, \text{累乗}_{No(2)} = [E=2, H=2]
\end{aligned}$$

$$\begin{aligned}
16_{fac^2 sum} &= [[2]^2, [2]^2, [2]^2, [2]^2] = [2]^4, \text{累乗}_{No(3)} = [E=2, H=4] \\
16_{fac^3 sum} &= [[2]^3, [2]^3, [2]^3, [2]^3] = [2]^5, \text{累乗}_{No(4)} = [E=3, H=5] \\
16_{fac^4 sum} &= [[2]^4, [2]^4, [2]^4, [2]^4] = [8]^2, \text{累乗}_{No(5)} = [E=4, H=2] \\
16_{fac^4 sum} &= [[2]^4, [2]^4, [2]^4, [2]^4] = [4]^3, \text{累乗}_{No(6)} = [E=4, H=3] \\
16_{fac^4 sum} &= [[2]^4, [2]^4, [2]^4, [2]^4] = [2]^6, \text{累乗}_{No(7)} = [E=4, H=6] \\
16_{fac^5 sum} &= [[2]^5, [2]^5, [2]^5, [2]^5] = [2]^7, \text{累乗}_{No(8)} = [E=5, H=7] \\
16_{fac^6 sum} &= [[2]^6, [2]^6, [2]^6, [2]^6] = [16]^2, \text{累乗}_{No(9)} = [E=6, H=2] \\
16_{fac^6 sum} &= [[2]^6, [2]^6, [2]^6, [2]^6] = [4]^4, \text{累乗}_{No(10)} = [E=6, H=4] \\
16_{fac^6 sum} &= [[2]^6, [2]^6, [2]^6, [2]^6] = [2]^8, \text{累乗}_{No(11)} = [E=6, H=8] \\
16_{fac^7 sum} &= [[2]^7, [2]^7, [2]^7, [2]^7] = [8]^3, \text{累乗}_{No(12)} = [E=7, H=3] \\
16_{fac^7 sum} &= [[2]^7, [2]^7, [2]^7, [2]^7] = [2]^9, \text{累乗}_{No(13)} = [E=7, H=9] \\
16_{fac^8 sum} &= [[2]^8, [2]^8, [2]^8, [2]^8] = [32]^2, \text{累乗}_{No(14)} = [E=8, H=2] \\
16_{fac^8 sum} &= [[2]^8, [2]^8, [2]^8, [2]^8] = [4]^5, \text{累乗}_{No(15)} = [E=8, H=5] \\
16_{fac^8 sum} &= [[2]^8, [2]^8, [2]^8, [2]^8] = [2]^{10}, \text{累乗}_{No(16)} = [E=8, H=10] \\
16_{fac^9 sum} &= [[2]^9, [2]^9, [2]^9, [2]^9] = [2]^{11}, \text{累乗}_{No(17)} = [E=9, H=11] \\
16_{fac^{10} sum} &= [[2]^{10}, [2]^{10}, [2]^{10}, [2]^{10}] = [64]^2, \text{累乗}_{No(18)} = [E=10, H=2] \\
16_{fac^{10} sum} &= [[2]^{10}, [2]^{10}, [2]^{10}, [2]^{10}] = [16]^3, \text{累乗}_{No(19)} = [E=10, H=3] \\
16_{fac^{10} sum} &= [[2]^{10}, [2]^{10}, [2]^{10}, [2]^{10}] = [8]^4, \text{累乗}_{No(20)} = [E=10, H=4] \\
16_{fac^{10} sum} &= [[2]^{10}, [2]^{10}, [2]^{10}, [2]^{10}] = [4]^6, \text{累乗}_{No(21)} = [E=10, H=6] \\
16_{fac^{10} sum} &= [[2]^{10}, [2]^{10}, [2]^{10}, [2]^{10}] = [2]^{12}, \text{累乗}_{No(22)} = [E=10, H=12] \\
18_{fac sum} &= [[2], [3], [3]] = [2]^3, \text{累乗}_{No(1)} = [E=1, H=3] \\
20_{fac sum} &= [[2], [2], [5]] = [3]^2, \text{累乗}_{No(1)} = [E=1, H=2] \\
22_{fac^2 sum} &= [[2]^2, [11]^2] = [5]^3, \text{累乗}_{No(1)} = [E=2, H=3] \\
24_{fac sum} &= [[2], [2], [2], [3]] = [3]^2, \text{累乗}_{No(1)} = [E=1, H=2] \\
26_{fac^8 sum} &= [[2]^8, [13]^8], 815730977_{prime} = \{8\} \text{ 次の素数}
\end{aligned}$$

$$\begin{aligned}
& NN(26 = Level(4)_{No(1)}) \\
& G\left(26_{Fac(2, 13) SUM=15} = LV \frac{\{4\}}{[4]}\right)
\end{aligned}$$

$$G\left(15_{Fac(3, 5) SUM=8} = LV \frac{\{3\}}{[4]}\right)$$

$$G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[4]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[4]}\right)$$

*StopPrime(5)*

$$27_{fac sum} = [[3], [3], [3]] = [3]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$27_{fac^2 sum} = [[3]^2, [3]^2, [3]^2] = [3]^3, \text{累乗}_{No(2)} = [E=2, H=3]$$

$$27_{fac^3 sum} = [[3]^3, [3]^3, [3]^3] = [9]^2, \text{累乗}_{No(3)} = [E=3, H=2]$$

$$27_{fac^3 sum} = [[3]^3, [3]^3, [3]^3] = [3]^4, \text{累乗}_{No(4)} = [E=3, H=4]$$

$$27_{fac^4 sum} = [[3]^4, [3]^4, [3]^4] = [3]^5, \text{累乗}_{No(5)} = [E=4, H=5]$$

$$27_{fac^5 sum} = [[3]^5, [3]^5, [3]^5] = [27]^2, \text{累乗}_{No(6)} = [E=5, H=2]$$

$$27_{fac^5 sum} = [[3]^5, [3]^5, [3]^5] = [9]^3, \text{累乗}_{No(7)} = [E=5, H=3]$$

$$27_{fac^5 sum} = [[3]^5, [3]^5, [3]^5] = [3]^6, \text{累乗}_{No(8)} = [E=5, H=6]$$

$$27_{fac^6 sum} = [[3]^6, [3]^6, [3]^6] = [3]^7, \text{累乗}_{No(9)} = [E=6, H=7]$$

$$27_{fac^7 sum} = [[3]^7, [3]^7, [3]^7] = [81]^2, \text{累乗}_{No(10)} = [E=7, H=2]$$

$$27_{fac^7 sum} = [[3]^7, [3]^7, [3]^7] = [9]^4, \text{累乗}_{No(11)} = [E=7, H=4]$$

$$27_{fac^7 sum} = [[3]^7, [3]^7, [3]^7] = [3]^8, \text{累乗}_{No(12)} = [E=7, H=8]$$

$$27_{fac^8 sum} = [[3]^8, [3]^8, [3]^8] = [27]^3, \text{累乗}_{No(13)} = [E=8, H=3]$$

$$27_{fac^8 sum} = [[3]^8, [3]^8, [3]^8] = [3]^9, \text{累乗}_{No(14)} = [E=8, H=9]$$

$$27_{fac^9 sum} = [[3]^9, [3]^9, [3]^9] = [243]^2, \text{累乗}_{No(15)} = [E=9, H=2]$$

$$27_{fac^9 sum} = [[3]^9, [3]^9, [3]^9] = [9]^5, \text{累乗}_{No(16)} = [E=9, H=5]$$

$$27_{fac^9 sum} = [[3]^9, [3]^9, [3]^9] = [3]^{10}, \text{累乗}_{No(17)} = [E=9, H=10]$$

$$27_{fac^{10} sum} = [[3]^{10}, [3]^{10}, [3]^{10}] = [3]^{11}, \text{累乗}_{No(18)} = [E=10, H=11]$$

$$28_{fac^7 sum} = [[2]^7, [2]^7, [7]^7], 823799_{prime} = \{7\} \text{ 次の素数}$$

$$39_{fac sum} = [[3], [13]] = [4]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$39_{fac sum} = [[3], [13]] = [2]^4, \text{累乗}_{No(2)} = [E=1, H=4]$$

$$46_{fac sum} = [[2], [23]] = [5]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$3 \text{ つ子 } \left[ \begin{matrix} 47 \\ P_1 \end{matrix}, [6], \begin{matrix} 53 \\ P_2 \end{matrix}, [6], \begin{matrix} 59 \\ P_3 \end{matrix} \right] = [KK([6]) = No(1)]$$

$$48 \text{ fac}^2 \text{ sum} = [2]^2, [2]^2, [2]^2, [2]^2, [3]^2 = [5]^2, \text{累乗}_{No(1)} = [E=2, H=2]$$

$$55 \text{ fac sum} = [[5], [11]] = [4]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$55 \text{ fac sum} = [[5], [11]] = [2]^4, \text{累乗}_{No(2)} = [E=1, H=4]$$

$$NN(62 = \text{Level}(5)_{No(1)})$$

$$G\left(62_{\text{Fac}(2, 31) \text{ SUM}=33} = LV \frac{\{5\}}{[5]}\right)$$

$$G\left(33_{\text{Fac}(3, 11) \text{ SUM}=14} = LV \frac{\{4\}}{[5]}\right)$$

$$G\left(14_{\text{Fac}(2, 7) \text{ SUM}=9} = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(9_{\text{Fac}(3, 3) \text{ SUM}=6} = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(6_{\text{Fac}(2, 3) \text{ SUM}=5} = LV \frac{\{1\}}{[5]}\right)$$

$$\text{StopPrime}(5)$$

$$63 \text{ fac}^{10} \text{ sum} = [3]^{10}, [3]^{10}, [7]^{10}, 282593347_{\text{prime}} = \{10\} \text{ 次の素数}$$

$$66 \text{ fac sum} = [[2], [3], [11]] = [4]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$66 \text{ fac sum} = [[2], [3], [11]] = [2]^4, \text{累乗}_{No(2)} = [E=1, H=4]$$

$$75 \text{ fac}^4 \text{ sum} = [3]^4, [5]^4, [5]^4 = [11]^3, \text{累乗}_{No(1)} = [E=4, H=3]$$

$$81 \text{ fac}^2 \text{ sum} = [3]^2, [3]^2, [3]^2, [3]^2 = [6]^2, \text{累乗}_{No(1)} = [E=2, H=2]$$

$$81 \text{ fac}^4 \text{ sum} = [3]^4, [3]^4, [3]^4, [3]^4 = [18]^2, \text{累乗}_{No(2)} = [E=4, H=2]$$

$$81 \text{ fac}^6 \text{ sum} = [3]^6, [3]^6, [3]^6, [3]^6 = [54]^2, \text{累乗}_{No(3)} = [E=6, H=2]$$

$$81 \text{ fac}^8 \text{ sum} = [3]^8, [3]^8, [3]^8, [3]^8 = [162]^2, \text{累乗}_{No(4)} = [E=8, H=2]$$

$$81 \text{ fac}^{10} \text{ sum} = [3]^{10}, [3]^{10}, [3]^{10}, [3]^{10} = [486]^2, \text{累乗}_{No(5)} = [E=10, H=2]$$

$$87 \text{ fac sum} = [[3], [29]] = [2]^5, \text{累乗}_{No(1)} = [E=1, H=5]$$

$$92 \text{ fac sum} = [[2], [2], [23]] = [3]^3, \text{累乗}_{No(1)} = [E=1, H=3]$$

$$94 \text{ fac sum} = [[2], [47]] = [7]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$98 \text{ fac sum} = [[2], [7], [7]] = [4]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$98 \text{ fac sum} = [[2], [7], [7]] = [2]^4, \text{累乗}_{No(2)} = [E=1, H=4]$$

$$NN(134 = \text{Level}(6)_{No(1)})$$

$$G\left(134_{\text{Fac}(2, 67) \text{ SUM}=69} = LV \frac{\{6\}}{[6]}\right)$$

$$G\left(69_{Fac(3, 23) SUM=26} = LV \frac{\{5\}}{[6]}\right)$$

$$G\left(26_{Fac(2, 13) SUM=15} = LV \frac{\{4\}}{[6]}\right)$$

$$G\left(15_{Fac(3, 5) SUM=8} = LV \frac{\{3\}}{[6]}\right)$$

$$G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[6]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[6]}\right)$$

StopPrime(5)

$$3 \text{ つ子2連} \left[ \begin{matrix} 151_{P_1}, [6], 157_{P_2}, [6], 163_{P_3} \end{matrix} \right] = [KK([6]) = No(1), 2 Ren]$$

$$140_{fac sum} = [[2], [2], [5], [7]] = [4]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$140_{fac sum} = [[2], [2], [5], [7]] = [2]^4, \text{累乗}_{No(2)} = [E=1, H=4]$$

$$140_{fac^3 sum} = [[2]^3, [2]^3, [5]^3, [7]^3] = [22]^2, \text{累乗}_{No(3)} = [E=3, H=2]$$

$$3 \text{ つ子} \left[ \begin{matrix} 151_{P_1}, [6], 157_{P_2}, [6], 163_{P_3} \end{matrix} \right] = [KK([6]) = No(2)]$$

$$3 \text{ つ子2連} \left[ \begin{matrix} 167_{P_1}, [6], 173_{P_2}, [6], 179_{P_3} \end{matrix} \right] = [KK([6]) = No(2), 2 Ren]$$

$$152_{fac sum} = [[2], [2], [2], [19]] = [5]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$155_{fac sum} = [[5], [31]] = [6]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$158_{fac sum} = [[2], [79]] = [9]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$158_{fac sum} = [[2], [79]] = [3]^4, \text{累乗}_{No(2)} = [E=1, H=4]$$

$$168_{fac sum} = [[2], [2], [2], [3], [7]] = [4]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$168_{fac sum} = [[2], [2], [2], [3], [7]] = [2]^4, \text{累乗}_{No(2)} = [E=1, H=4]$$

$$171_{fac sum} = [[3], [3], [19]] = [5]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$183_{fac sum} = [[3], [61]] = [8]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$183_{fac sum} = [[3], [61]] = [4]^3, \text{累乗}_{No(2)} = [E=1, H=3]$$

$$183_{fac sum} = [[3], [61]] = [2]^6, \text{累乗}_{No(3)} = [E=1, H=6]$$

$$186_{fac sum} = [[2], [3], [31]] = [6]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$



$$189_{fac\ sum} = [[3], [3], [3], [7]] = [4]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$189_{fac\ sum} = [[3], [3], [3], [7]] = [2]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$3 \supset \text{子} \left[ \begin{matrix} 199_{P_1}, [12], 211_{P_2}, [12], 223_{P_3} \end{matrix} \right] = [KK([12]) = No(1)]$$

$$200_{fac\ sum} = [[2], [2], [2], [5], [5]] = [4]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$200_{fac\ sum} = [[2], [2], [2], [5], [5]] = [2]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$203_{fac\ sum} = [[7], [29]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$225_{fac\ sum} = [[3], [3], [5], [5]] = [4]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$225_{fac\ sum} = [[3], [3], [5], [5]] = [2]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$240_{fac\ sum} = [[2], [2], [2], [2], [3], [5]] = [4]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$240_{fac\ sum} = [[2], [2], [2], [2], [3], [5]] = [2]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$247_{fac\ sum} = [[13], [19]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$255_{fac\ sum} = [[3], [5], [17]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$256_{fac\ sum} = [[2], [2], [2], [2], [2], [2], [2], [2]] = [4]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$256_{fac\ sum} = [[2], [2], [2], [2], [2], [2], [2], [2]] = [2]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$256_{fac^2\ sum} = [[2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2] = [2]^5, \text{累乘}_{No(3)} = [E=2, H=5]$$

$$256_{fac^3\ sum} = [[2]^3, [2]^3, [2]^3, [2]^3, [2]^3, [2]^3, [2]^3, [2]^3] = [8]^2, \text{累乘}_{No(4)} = [E=3, H=2]$$

$$256_{fac^3\ sum} = [[2]^3, [2]^3, [2]^3, [2]^3, [2]^3, [2]^3, [2]^3, [2]^3] = [4]^3, \text{累乘}_{No(5)} = [E=3, H=3]$$

$$256_{fac^3\ sum} = [[2]^3, [2]^3, [2]^3, [2]^3, [2]^3, [2]^3, [2]^3, [2]^3] = [2]^6, \text{累乘}_{No(6)} = [E=3, H=6]$$

$$256_{fac^4\ sum} = [[2]^4, [2]^4, [2]^4, [2]^4, [2]^4, [2]^4, [2]^4, [2]^4] = [2]^7, \text{累乘}_{No(7)} = [E=4, H=7]$$

$$256_{fac^5\ sum} = [[2]^5, [2]^5, [2]^5, [2]^5, [2]^5, [2]^5, [2]^5, [2]^5] = [16]^2, \text{累乘}_{No(8)} = [E=5, H=2]$$

$$256_{fac^5\ sum} = [[2]^5, [2]^5, [2]^5, [2]^5, [2]^5, [2]^5, [2]^5, [2]^5] = [4]^4, \text{累乘}_{No(9)} = [E=5, H=4]$$

$$256_{fac^5\ sum} = [[2]^5, [2]^5, [2]^5, [2]^5, [2]^5, [2]^5, [2]^5, [2]^5] = [2]^8, \text{累乘}_{No(10)} = [E=5, H=8]$$

$$256_{fac^6\ sum} = [[2]^6, [2]^6, [2]^6, [2]^6, [2]^6, [2]^6, [2]^6, [2]^6] = [8]^3, \text{累乘}_{No(11)} = [E=6, H=3]$$

$$256_{fac^6\ sum} = [[2]^6, [2]^6, [2]^6, [2]^6, [2]^6, [2]^6, [2]^6, [2]^6] = [2]^9, \text{累乘}_{No(12)} = [E=6, H=9]$$

$$256_{fac^7\ sum} = [[2]^7, [2]^7, [2]^7, [2]^7, [2]^7, [2]^7, [2]^7, [2]^7] = [32]^2, \text{累乘}_{No(13)} = [E=7, H=2]$$

$$256_{fac^7\ sum} = [[2]^7, [2]^7, [2]^7, [2]^7, [2]^7, [2]^7, [2]^7, [2]^7] = [4]^5, \text{累乘}_{No(14)} = [E=7, H=5]$$

$$256_{fac^7\ sum} = [[2]^7, [2]^7, [2]^7, [2]^7, [2]^7, [2]^7, [2]^7, [2]^7] = [2]^{10}, \text{累乘}_{No(15)} = [E=7, H=10]$$

$$256_{fac^8\ sum} = [[2]^8, [2]^8, [2]^8, [2]^8, [2]^8, [2]^8, [2]^8, [2]^8] = [2]^{11}, \text{累乘}_{No(16)} = [E=8, H=11]$$

$$\begin{aligned}
256_{fac^9 sum} &= [2]^9, [2]^9, [2]^9, [2]^9, [2]^9, [2]^9, [2]^9, [2]^9 = [64]^2, \text{累乘}_{No(17)} = [E=9, H=2] \\
256_{fac^9 sum} &= [2]^9, [2]^9, [2]^9, [2]^9, [2]^9, [2]^9, [2]^9, [2]^9 = [16]^3, \text{累乘}_{No(18)} = [E=9, H=3] \\
256_{fac^9 sum} &= [2]^9, [2]^9, [2]^9, [2]^9, [2]^9, [2]^9, [2]^9, [2]^9 = [8]^4, \text{累乘}_{No(19)} = [E=9, H=4] \\
256_{fac^9 sum} &= [2]^9, [2]^9, [2]^9, [2]^9, [2]^9, [2]^9, [2]^9, [2]^9 = [4]^6, \text{累乘}_{No(20)} = [E=9, H=6] \\
256_{fac^9 sum} &= [2]^9, [2]^9, [2]^9, [2]^9, [2]^9, [2]^9, [2]^9, [2]^9 = [2]^{12}, \text{累乘}_{No(21)} = [E=9, H=12] \\
256_{fac^{10} sum} &= [2]^{10}, [2]^{10}, [2]^{10}, [2]^{10}, [2]^{10}, [2]^{10}, [2]^{10}, [2]^{10} = [2]^{13}, \text{累乘}_{No(22)} = [E=10, H=13] \\
270_{fac sum} &= [[2], [3], [3], [3], [5]] = [4]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
270_{fac sum} &= [[2], [3], [3], [3], [5]] = [2]^4, \text{累乘}_{No(2)} = [E=1, H=4] \\
272_{fac sum} &= [[2], [2], [2], [2], [17]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
285_{fac sum} &= [[3], [5], [19]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3] \\
288_{fac sum} &= [[2], [2], [2], [2], [2], [3], [3]] = [4]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
288_{fac sum} &= [[2], [2], [2], [2], [2], [3], [3]] = [2]^4, \text{累乘}_{No(2)} = [E=1, H=4] \\
290_{fac sum} &= [[2], [5], [29]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
291_{fac sum} &= [[3], [97]] = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
295_{fac sum} &= [[5], [59]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
295_{fac sum} &= [[5], [59]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3] \\
295_{fac sum} &= [[5], [59]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6] \\
297_{fac^4 sum} &= [[3]^4, [3]^4, [3]^4, [11]^4] = [122]^2, \text{累乘}_{No(1)} = [E=4, H=2] \\
299_{fac sum} &= [[13], [23]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
304_{fac sum} &= [[2], [2], [2], [2], [19]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3] \\
306_{fac sum} &= [[2], [3], [3], [17]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
320_{fac^2 sum} &= [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [5]^2 = [7]^2, \text{累乘}_{No(1)} = [E=2, H=2] \\
322_{fac sum} &= [[2], [7], [23]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5] \\
323_{fac sum} &= [[17], [19]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
324_{fac sum} &= [[2], [2], [3], [3], [3], [3]] = [4]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
324_{fac sum} &= [[2], [2], [3], [3], [3], [3]] = [2]^4, \text{累乘}_{No(2)} = [E=1, H=4] \\
334_{fac sum} &= [[2], [167]] = [13]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
342_{fac sum} &= [[2], [3], [3], [19]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3] \\
344_{fac sum} &= [[2], [2], [2], [43]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
348_{fac sum} &= [[2], [2], [3], [29]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]
\end{aligned}$$

$$\begin{aligned}
351_{fac^2 sum} &= [[3]^2, [3]^2, [3]^2, [13]^2] = [14]^2, \text{累乘}_{No(1)} = [E=2, H=2] \\
354_{fac sum} &= [[2], [3], [59]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
354_{fac sum} &= [[2], [3], [59]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3] \\
354_{fac sum} &= [[2], [3], [59]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6] \\
357_{fac sum} &= [[3], [7], [17]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3] \\
363_{fac sum} &= [[3], [11], [11]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
387_{fac sum} &= [[3], [3], [43]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]
\end{aligned}$$

$$\begin{aligned}
&NN(393 = Level(7)_{No(1)}) \\
&G\left(393_{Fac(3, 131) SUM=134} = LV \frac{\{7\}}{[7]}\right) \\
&G\left(134_{Fac(2, 67) SUM=69} = LV \frac{\{6\}}{[7]}\right) \\
&G\left(69_{Fac(3, 23) SUM=26} = LV \frac{\{5\}}{[7]}\right) \\
&G\left(26_{Fac(2, 13) SUM=15} = LV \frac{\{4\}}{[7]}\right) \\
&G\left(15_{Fac(3, 5) SUM=8} = LV \frac{\{3\}}{[7]}\right) \\
&G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[7]}\right) \\
&G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[7]}\right) \\
&StopPrime(5)
\end{aligned}$$

$$\begin{aligned}
407_{fac^3 sum} &= [[11]^3, [37]^3] = [228]^2, \text{累乘}_{No(1)} = [E=3, H=2] \\
418_{fac sum} &= [[2], [11], [19]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5] \\
425_{fac sum} &= [[5], [5], [17]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3] \\
429_{fac sum} &= [[3], [11], [13]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3] \\
442_{fac sum} &= [[2], [13], [17]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5] \\
446_{fac sum} &= [[2], [223]] = [15]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
455_{fac sum} &= [[5], [7], [13]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
455_{fac^2 sum} &= [[5]^2, [7]^2, [13]^2] = [3]^5, \text{累乘}_{No(2)} = [E=2, H=5] \\
460_{fac sum} &= [[2], [2], [5], [23]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5] \\
482_{fac sum} &= [[2], [241]] = [3]^5, \text{累乘}_{No(1)} = [E=1, H=5] \\
486_{fac^2 sum} &= [[2]^2, [3]^2, [3]^2, [3]^2, [3]^2, [3]^2] = [7]^2, \text{累乘}_{No(1)} = [E=2, H=2]
\end{aligned}$$

$$506_{fac\ sum} = [[2], [11], [23]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$510_{fac\ sum} = [[2], [3], [5], [17]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$512_{fac^2\ sum} = [[2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2] = [6]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$512_{fac^4\ sum} = [[2]^4, [2]^4, [2]^4, [2]^4, [2]^4, [2]^4, [2]^4, [2]^4] = [12]^2, \text{累乘}_{No(2)} = [E=4, H=2]$$

$$512_{fac^6\ sum} = [[2]^6, [2]^6, [2]^6, [2]^6, [2]^6, [2]^6, [2]^6, [2]^6] = [24]^2, \text{累乘}_{No(3)} = [E=6, H=2]$$

$$512_{fac^8\ sum} = [[2]^8, [2]^8, [2]^8, [2]^8, [2]^8, [2]^8, [2]^8, [2]^8] = [48]^2, \text{累乘}_{No(4)} = [E=8, H=2]$$

$$512_{fac^{10}\ sum} = [[2]^{10}, [2]^{10}, [2]^{10}, [2]^{10}, [2]^{10}, [2]^{10}, [2]^{10}, [2]^{10}, [2]^{10}] = [96]^2, \text{累乘}_{No(5)} = [E=10, H=2]$$

$$NN(538 = Level(1)_{No(100)})$$

$$G\left(538_{Fac(2, 269)} SUM=271 = LV \frac{\{1\}}{[1]}\right)$$

$$StopPrime(271)$$

$$539_{fac\ sum} = [[7], [7], [11]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$540_{fac^4\ sum} = [[2]^4, [2]^4, [3]^4, [3]^4, [3]^4, [5]^4] = [30]^2, \text{累乘}_{No(1)} = [E=4, H=2]$$

$$544_{fac\ sum} = [[2], [2], [2], [2], [2], [17]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$NN(544 = Level(4)_{No(100)})$$

$$G\left(544_{Fac(2, 2, 2, 2, 17)} SUM=27 = LV \frac{\{4\}}{[4]}\right)$$

$$G\left(27_{Fac(3, 3, 3)} SUM=9 = LV \frac{\{3\}}{[4]}\right)$$

$$G\left(9_{Fac(3, 3)} SUM=6 = LV \frac{\{2\}}{[4]}\right)$$

$$G\left(6_{Fac(2, 3)} SUM=5 = LV \frac{\{1\}}{[4]}\right)$$

$$StopPrime(5)$$

$$546_{fac\ sum} = [[2], [3], [7], [13]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(548 = Level(4)_{No(101)})$$

$$G\left(548_{Fac(2, 2, 137)} SUM=141 = LV \frac{\{4\}}{[4]}\right)$$

$$G\left(141_{Fac(3, 47)} SUM=50 = LV \frac{\{3\}}{[4]}\right)$$

$$G\left(50_{Fac(2, 5, 5)} SUM=12 = LV \frac{\{2\}}{[4]}\right)$$

$$G\left(12_{Fac(2, 2, 3) SUM=7} = LV \frac{\{1\}}{[4]}\right)$$

*StopPrime(7)*

$$NN(549 = Level(1)_{No(101)})$$

$$G\left(549_{Fac(3, 3, 61) SUM=67} = LV \frac{\{1\}}{[1]}\right)$$

*StopPrime(67)*

$$552_{facsum} = [[2], [2], [2], [3], [23]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$578_{facsum} = [[2], [17], [17]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$579_{facsum} = [[3], [193]] = [14]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$583_{facsum} = [[11], [53]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$583_{facsum} = [[11], [53]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$583_{facsum} = [[11], [53]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$588_{fac^3 sum} = [[2]^3, [2]^3, [3]^3, [7]^3, [7]^3] = [27]^2, \text{累乘}_{No(1)} = [E=3, H=2]$$

$$588_{fac^3 sum} = [[2]^3, [2]^3, [3]^3, [7]^3, [7]^3] = [9]^3, \text{累乘}_{No(2)} = [E=3, H=3]$$

$$588_{fac^3 sum} = [[2]^3, [2]^3, [3]^3, [7]^3, [7]^3] = [3]^6, \text{累乘}_{No(3)} = [E=3, H=6]$$

$$NN(602 = Level(2)_{No(100)})$$

$$G\left(602_{Fac(2, 7, 43) SUM=52} = LV \frac{\{2\}}{[2]}\right)$$

$$G\left(52_{Fac(2, 2, 13) SUM=17} = LV \frac{\{1\}}{[2]}\right)$$

*StopPrime(17)*

$$605_{facsum} = [[5], [11], [11]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$612_{facsum} = [[2], [2], [3], [3], [17]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$615_{facsum} = [[3], [5], [41]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(618 = Level(2)_{No(101)})$$

$$G\left(618_{Fac(2, 3, 103) SUM=108} = LV \frac{\{2\}}{[2]}\right)$$

$$G\left(108_{Fac(2, 2, 3, 3, 3) SUM=13} = LV \frac{\{1\}}{[2]}\right)$$

*StopPrime(13)*

$$621_{facsum} = [[3], [3], [3], [23]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$625_{fac^2 sum} = [[5]^2, [5]^2, [5]^2, [5]^2] = [10]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$625_{fac^4 sum} = [[5]^4, [5]^4, [5]^4, [5]^4] = [50]^2, \text{累乘}_{No(2)} = [E=4, H=2]$$

$$625_{fac^6 sum} = [[5]^6, [5]^6, [5]^6, [5]^6] = [250]^2, \text{累乘}_{No(3)} = [E=6, H=2]$$

$$625_{fac^8 sum} = [[5]^8, [5]^8, [5]^8, [5]^8] = [1250]^2, \text{累乘}_{No(4)} = [E=8, H=2]$$

$$625_{fac^{10} sum} = [[5]^{10}, [5]^{10}, [5]^{10}, [5]^{10}] = [6250]^2, \text{累乘}_{No(5)} = [E=10, H=2]$$

$$637_{fac sum} = [[7], [7], [13]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$3 \text{ 子 } \left[ \begin{matrix} 647_{P_1}, [6], 653_{P_2}, [6], 659_{P_3} \end{matrix} \right] = [KK([6]) = No(10)]$$

$$650_{fac sum} = [[2], [5], [5], [13]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$\begin{aligned} & NN(650 = Level(3)_{No(100)}) \\ & G\left( \begin{matrix} 650_{Fac(2, 5, 5, 13) SUM=25} = LV \frac{\{3\}}{[3]} \end{matrix} \right) \\ & G\left( \begin{matrix} 25_{Fac(5, 5) SUM=10} = LV \frac{\{2\}}{[3]} \end{matrix} \right) \\ & G\left( \begin{matrix} 10_{Fac(2, 5) SUM=7} = LV \frac{\{1\}}{[3]} \end{matrix} \right) \\ & StopPrime(7) \end{aligned}$$

$$656_{fac sum} = [[2], [2], [2], [2], [41]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$\begin{aligned} & NN(671 = Level(3)_{No(101)}) \\ & G\left( \begin{matrix} 671_{Fac(11, 61) SUM=72} = LV \frac{\{3\}}{[3]} \end{matrix} \right) \\ & G\left( \begin{matrix} 72_{Fac(2, 2, 2, 3, 3) SUM=12} = LV \frac{\{2\}}{[3]} \end{matrix} \right) \\ & G\left( \begin{matrix} 12_{Fac(2, 2, 3) SUM=7} = LV \frac{\{1\}}{[3]} \end{matrix} \right) \\ & StopPrime(7) \end{aligned}$$

$$693_{fac^3 sum} = [[3]^3, [3]^3, [7]^3, [11]^3] = [12]^3, \text{累乘}_{No(1)} = [E=3, H=3]$$

$$695_{fac sum} = [[5], [139]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$718_{fac sum} = [[2], [359]] = [19]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$726_{fac sum} = [[2], [3], [11], [11]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$3 \text{ 子 } \left[ \begin{matrix} 727_{P_1}, [6], 733_{P_2}, [6], 739_{P_3} \\ \end{matrix} \right] = [KK([6]) = No(11)]$$

$$738_{facsum} = [[2], [3], [3], [41]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$748_{facsum} = [[2], [2], [11], [17]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$\begin{aligned} & NN(754 = Level(5)_{No(100)}) \\ & G\left( \begin{matrix} 754_{Fac(2, 13, 29)} SUM=44 = LV \frac{\{5\}}{[5]} \\ \end{matrix} \right) \\ & G\left( \begin{matrix} 44_{Fac(2, 2, 11)} SUM=15 = LV \frac{\{4\}}{[5]} \\ \end{matrix} \right) \\ & G\left( \begin{matrix} 15_{Fac(3, 5)} SUM=8 = LV \frac{\{3\}}{[5]} \\ \end{matrix} \right) \\ & G\left( \begin{matrix} 8_{Fac(2, 2, 2)} SUM=6 = LV \frac{\{2\}}{[5]} \\ \end{matrix} \right) \\ & G\left( \begin{matrix} 6_{Fac(2, 3)} SUM=5 = LV \frac{\{1\}}{[5]} \\ \end{matrix} \right) \\ & \text{StopPrime}(5) \end{aligned}$$

$$\begin{aligned} & NN(755 = Level(5)_{No(101)}) \\ & G\left( \begin{matrix} 755_{Fac(5, 151)} SUM=156 = LV \frac{\{5\}}{[5]} \\ \end{matrix} \right) \\ & G\left( \begin{matrix} 156_{Fac(2, 2, 3, 13)} SUM=20 = LV \frac{\{4\}}{[5]} \\ \end{matrix} \right) \\ & G\left( \begin{matrix} 20_{Fac(2, 2, 5)} SUM=9 = LV \frac{\{3\}}{[5]} \\ \end{matrix} \right) \\ & G\left( \begin{matrix} 9_{Fac(3, 3)} SUM=6 = LV \frac{\{2\}}{[5]} \\ \end{matrix} \right) \\ & G\left( \begin{matrix} 6_{Fac(2, 3)} SUM=5 = LV \frac{\{1\}}{[5]} \\ \end{matrix} \right) \\ & \text{StopPrime}(5) \end{aligned}$$

$$770_{facsum} = [[2], [5], [7], [11]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$780_{facsum} = [[2], [2], [3], [5], [13]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$799_{facsum} = [[17], [47]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$799_{facsum} = [[17], [47]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$799_{facsum} = [[17], [47]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$832_{facsum} = [[2], [2], [2], [2], [2], [2], [13]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$834_{facsum} = [[2], [3], [139]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$850_{fac^2 sum} = [[2]^2, [5]^2, [5]^2, [17]^2] = [7]^3, \text{累乘}_{No(1)} = [E=2, H=3]$$

$$864_{fac^3 sum} = [[2]^3, [2]^3, [2]^3, [2]^3, [2]^3, [3]^3, [3]^3, [3]^3] = [11]^2, \text{累乘}_{No(1)} = [E=3, H=2]$$

$$878_{fac sum} = [[2], [439]] = [21]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$900_{fac^4 sum} = [[2]^4, [2]^4, [3]^4, [3]^4, [5]^4, [5]^4] = [38]^2, \text{累乘}_{No(1)} = [E=4, H=2]$$

$$910_{fac sum} = [[2], [5], [7], [13]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$924_{fac sum} = [[2], [2], [3], [7], [11]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$936_{fac sum} = [[2], [2], [2], [3], [3], [13]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3 \text{ つ子} \left[ \begin{array}{c} 941_{P_1} \\ 947_{P_2} \\ 953_{P_3} \end{array} \right] = [KK([6]) = No(12)]$$

$$943_{fac sum} = [[23], [41]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$943_{fac sum} = [[23], [41]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$943_{fac sum} = [[23], [41]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$3 \text{ つ子2連} \left[ \begin{array}{c} 971_{P_1} \\ 977_{P_2} \\ 983_{P_3} \end{array} \right] = [KK([6]) = No(12), 2 Ren]$$

$$955_{fac sum} = [[5], [191]] = [14]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$956_{fac sum} = [[2], [2], [239]] = [3]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$959_{fac sum} = [[7], [137]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$979_{fac sum} = [[11], [89]] = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$988_{fac sum} = [[2], [2], [13], [19]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$NN = \{1000\}$ 、 $DONE$

$$1053_{fac sum} = [[3], [3], [3], [3], [13]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1055_{fac sum} = [[5], [211]] = [6]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$1064_{fac sum} = [[2], [2], [2], [7], [19]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$1078_{fac sum} = [[2], [7], [7], [11]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$1078_{fac^3 sum} = [[2]^3, [7]^3, [7]^3, [11]^3] = [45]^2, \text{累乘}_{No(2)} = [E=3, H=2]$$

$$1080_{fac^2 sum} = [[2]^2, [2]^2, [2]^2, [3]^2, [3]^2, [3]^2, [5]^2] = [8]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$1080_{fac^2 sum} = [[2]^2, [2]^2, [2]^2, [3]^2, [3]^2, [3]^2, [5]^2] = [4]^3, \text{累乘}_{No(2)} = [E=2, H=3]$$

$$1080_{fac^2 sum} = [[2]^2, [2]^2, [2]^2, [3]^2, [3]^2, [3]^2, [5]^2] = [2]^6, \text{累乘}_{No(3)} = [E=2, H=6]$$



$$3 \text{ つ子2連} \left[ \begin{matrix} 1097 \\ P_1 \end{matrix}, [6], \begin{matrix} 1103 \\ P_2 \end{matrix}, [6], \begin{matrix} 1109 \\ P_3 \end{matrix} \right] = [KK([6]) = No(13), 2 Ren]$$

$$1092_{facsum} = [[2], [2], [3], [7], [13]] = [3]^3, \text{累乗}_{No(1)} = [E=1, H=3]$$

$$1095_{facsum} = [[3], [5], [73]] = [9]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$1095_{facsum} = [[3], [5], [73]] = [3]^4, \text{累乗}_{No(2)} = [E=1, H=4]$$

$$3 \text{ つ子2連} \left[ \begin{matrix} 1117 \\ P_1 \end{matrix}, [6], \begin{matrix} 1123 \\ P_2 \end{matrix}, [6], \begin{matrix} 1129 \\ P_3 \end{matrix} \right] = [KK([6]) = No(14), 2 Ren]$$

$$1100_{facsum} = [[2], [2], [5], [5], [11]] = [5]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$1146_{facsum} = [[2], [3], [191]] = [14]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$NN(1158 = Level(2)_{No(200)})$$

$$G \left( \begin{matrix} 1158_{Fac(2, 3, 193) SUM=198} = LV \frac{\{2\}}{[2]} \end{matrix} \right)$$

$$G \left( \begin{matrix} 198_{Fac(2, 3, 3, 11) SUM=19} = LV \frac{\{1\}}{[2]} \end{matrix} \right)$$

$$StopPrime(19)$$

$$NN(1159 = Level(2)_{No(201)})$$

$$G \left( \begin{matrix} 1159_{Fac(19, 61) SUM=80} = LV \frac{\{2\}}{[2]} \end{matrix} \right)$$

$$G \left( \begin{matrix} 80_{Fac(2, 2, 2, 2, 5) SUM=13} = LV \frac{\{1\}}{[2]} \end{matrix} \right)$$

$$StopPrime(13)$$

$$1168_{facsum} = [[2], [2], [2], [2], [73]] = [9]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$1168_{facsum} = [[2], [2], [2], [2], [73]] = [3]^4, \text{累乗}_{No(2)} = [E=1, H=4]$$

$$1170_{fac^2sum} = [[2]^2, [3]^2, [3]^2, [5]^2, [13]^2] = [6]^3, \text{累乗}_{No(1)} = [E=2, H=3]$$

$$1191_{facsum} = [[3], [397]] = [20]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$1197_{facsum} = [[3], [3], [7], [19]] = [2]^5, \text{累乗}_{No(1)} = [E=1, H=5]$$

$$NN(1218 = Level(1)_{No(200)})$$

$$G \left( \begin{matrix} 1218_{Fac(2, 3, 7, 29) SUM=41} = LV \frac{\{1\}}{[1]} \end{matrix} \right)$$

$$StopPrime(41)$$

$$NN(1224 = Level(1)_{No(201)})$$

$$G\left(1224_{Fac(2, 2, 2, 3, 3, 17)} SUM=29 = LV \frac{\{1\}}{[1]}\right)$$

$$StopPrime(29)$$

$$1255_{facsum} = [[5], [251]] = [16]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1255_{facsum} = [[5], [251]] = [4]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$1255_{facsum} = [[5], [251]] = [2]^8, \text{累乘}_{No(3)} = [E=1, H=8]$$

$$NN(1257 = Level(8)_{No(1)})$$

$$G\left(1257_{Fac(3, 419)} SUM=422 = LV \frac{\{8\}}{[8]}\right)$$

$$G\left(422_{Fac(2, 211)} SUM=213 = LV \frac{\{7\}}{[8]}\right)$$

$$G\left(213_{Fac(3, 71)} SUM=74 = LV \frac{\{6\}}{[8]}\right)$$

$$G\left(74_{Fac(2, 37)} SUM=39 = LV \frac{\{5\}}{[8]}\right)$$

$$G\left(39_{Fac(3, 13)} SUM=16 = LV \frac{\{4\}}{[8]}\right)$$

$$G\left(16_{Fac(2, 2, 2, 2)} SUM=8 = LV \frac{\{3\}}{[8]}\right)$$

$$G\left(8_{Fac(2, 2, 2)} SUM=6 = LV \frac{\{2\}}{[8]}\right)$$

$$G\left(6_{Fac(2, 3)} SUM=5 = LV \frac{\{1\}}{[8]}\right)$$

$$StopPrime(5)$$

$$1260_{fac^2sum} = [[2]^2, [2]^2, [3]^2, [3]^2, [5]^2, [7]^2] = [10]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$1266_{facsum} = [[2], [3], [211]] = [6]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$1288_{facsum} = [[2], [2], [2], [7], [23]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1295_{facsum} = [[5], [7], [37]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1300_{facsum} = [[2], [2], [5], [5], [13]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$1304_{facsum} = [[2], [2], [2], [163]] = [13]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1314_{facsum} = [[2], [3], [3], [73]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1314_{facsum} = [[2], [3], [3], [73]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$NN(1314 = Level(3)_{No(200)})$$

$$G\left(1314_{Fac(2, 3, 3, 73)} SUM=81 = LV \frac{\{3\}}{[3]}\right)$$

$$G\left(81_{Fac(3, 3, 3, 3) SUM=12} = LV \frac{\{2\}}{[3]}\right)$$

$$G\left(12_{Fac(2, 2, 3) SUM=7} = LV \frac{\{1\}}{[3]}\right)$$

*StopPrime(7)*

1320<sub>fac sum = [[2], [2], [2], [3], [5], [11]]</sub> = [5]<sup>2</sup>, 累乘<sub>No(1)</sub> = [E = 1, H = 2]

$$NN(1320 = Level(3)_{No(201)})$$

$$G\left(1320_{Fac(2, 2, 2, 3, 5, 11) SUM=25} = LV \frac{\{3\}}{[3]}\right)$$

$$G\left(25_{Fac(5, 5) SUM=10} = LV \frac{\{2\}}{[3]}\right)$$

$$G\left(10_{Fac(2, 5) SUM=7} = LV \frac{\{1\}}{[3]}\right)$$

*StopPrime(7)*

1323<sub>fac<sup>2</sup> sum = [[3]<sup>2</sup>, [3]<sup>2</sup>, [3]<sup>2</sup>, [7]<sup>2</sup>, [7]<sup>2</sup>]</sub> = [5]<sup>3</sup>, 累乘<sub>No(1)</sub> = [E = 2, H = 3]

$$NN(1328 = Level(5)_{No(200)})$$

$$G\left(1328_{Fac(2, 2, 2, 2, 83) SUM=91} = LV \frac{\{5\}}{[5]}\right)$$

$$G\left(91_{Fac(7, 13) SUM=20} = LV \frac{\{4\}}{[5]}\right)$$

$$G\left(20_{Fac(2, 2, 5) SUM=9} = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right)$$

*StopPrime(5)*

$$NN(1330 = Level(5)_{No(201)})$$

$$G\left(1330_{Fac(2, 5, 7, 19) SUM=33} = LV \frac{\{5\}}{[5]}\right)$$

$$G\left(33_{Fac(3, 11) SUM=14} = LV \frac{\{4\}}{[5]}\right)$$

$$G\left(14_{Fac(2, 7) SUM=9} = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right)$$

*StopPrime(5)*

$$1350_{fac^2 sum} = [[2]^2, [3]^2, [3]^2, [3]^2, [5]^2, [5]^2] = [9]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$1350_{fac^2 sum} = [[2]^2, [3]^2, [3]^2, [3]^2, [5]^2, [5]^2] = [3]^4, \text{累乘}_{No(2)} = [E=2, H=4]$$

$$1352_{fac sum} = [[2], [2], [2], [13], [13]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$1370_{fac sum} = [[2], [5], [137]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1372_{fac sum} = [[2], [2], [7], [7], [7]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1375_{fac^2 sum} = [[5]^2, [5]^2, [5]^2, [11]^2] = [14]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$1408_{fac sum} = [[2], [2], [2], [2], [2], [2], [2], [2], [11]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1411_{fac sum} = [[17], [83]] = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(1418 = Level(4)_{No(200)})$$

$$G\left(1418_{Fac(2, 709) SUM=711} = LV \frac{\{4\}}{[4]}\right)$$

$$G\left(711_{Fac(3, 3, 79) SUM=85} = LV \frac{\{3\}}{[4]}\right)$$

$$G\left(85_{Fac(5, 17) SUM=22} = LV \frac{\{2\}}{[4]}\right)$$

$$G\left(22_{Fac(2, 11) SUM=13} = LV \frac{\{1\}}{[4]}\right)$$

*StopPrime(13)*

$$NN(1422 = Level(4)_{No(201)})$$

$$G\left(1422_{Fac(2, 3, 3, 79) SUM=87} = LV \frac{\{4\}}{[4]}\right)$$

$$G\left(87_{Fac(3, 29) SUM=32} = LV \frac{\{3\}}{[4]}\right)$$

$$G\left(32_{Fac(2, 2, 2, 2) SUM=10} = LV \frac{\{2\}}{[4]}\right)$$

$$G\left(10_{Fac(2, 5) SUM=7} = LV \frac{\{1\}}{[4]}\right)$$

*StopPrime(7)*

$$1425_{fac sum} = [[3], [5], [5], [19]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$1449_{fac sum} = [[3], [3], [7], [23]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1454_{fac sum} = [[2], [727]] = [27]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1454_{fac sum} = [[2], [727]] = [9]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$1454_{fac sum} = [[2], [727]] = [3]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$1467_{fac\ sum} = [[3], [3], [163]] = [13]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1479_{fac\ sum} = [[3], [17], [29]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1484_{fac\ sum} = [[2], [2], [7], [53]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1484_{fac\ sum} = [[2], [2], [7], [53]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$1484_{fac\ sum} = [[2], [2], [7], [53]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$1485_{fac\ sum} = [[3], [3], [3], [5], [11]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1491_{fac\ sum} = [[3], [7], [71]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1491_{fac\ sum} = [[3], [7], [71]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$3 \text{ 子 } \left[ \begin{matrix} 1499_P \\ 1 \\ 1511_P \\ 2 \\ 1523_P \\ 3 \end{matrix} \right] = [KK([12]) = No(2)]$$

$$1506_{fac\ sum} = [[2], [3], [251]] = [16]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1506_{fac\ sum} = [[2], [3], [251]] = [4]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$1506_{fac\ sum} = [[2], [3], [251]] = [2]^8, \text{累乘}_{No(3)} = [E=1, H=8]$$

$$1520_{fac\ sum} = [[2], [2], [2], [2], [5], [19]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$1521_{fac\ sum} = [[3], [3], [13], [13]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$1527_{fac\ sum} = [[3], [509]] = [8]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$1527_{fac\ sum} = [[3], [509]] = [2]^9, \text{累乘}_{No(2)} = [E=1, H=9]$$

$$1536_{fac^4\ sum} = [[2]^4, [2]^4, [2]^4, [2]^4, [2]^4, [2]^4, [2]^4, [2]^4, [2]^4, [2]^4, [3]^4] = [15]^2, \text{累乘}_{No(1)} = [E=4, H=2]$$

$$1540_{fac\ sum} = [[2], [2], [5], [7], [11]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$1554_{fac\ sum} = [[2], [3], [7], [37]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1560_{fac\ sum} = [[2], [2], [2], [3], [5], [13]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$1584_{fac\ sum} = [[2], [2], [2], [2], [3], [3], [11]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1587_{fac\ sum} = [[3], [23], [23]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1634_{fac\ sum} = [[2], [19], [43]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1634_{fac\ sum} = [[2], [19], [43]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$1634_{fac\ sum} = [[2], [19], [43]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$1644_{fac\ sum} = [[2], [2], [3], [137]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1664_{fac\ sum} = [[2], [2], [2], [2], [2], [2], [2], [13]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$1672_{fac\ sum} = [[2], [2], [2], [11], [19]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1678_{fac\ sum} = [[2], [839]] = [29]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1695_{fac\ sum} = [[3], [5], [113]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1703_{fac\ sum} = [[13], [131]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1710_{fac\ sum} = [[2], [3], [3], [5], [19]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$1725_{fac\ sum} = [[3], [5], [5], [23]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3 \text{ 子 } \left[ \begin{matrix} 1747 \\ P_1 \end{matrix}, \begin{matrix} [6], 1753 \\ P_2 \end{matrix}, \begin{matrix} [6], 1759 \\ P_3 \end{matrix} \right] = [KK([6]) = No(20)]$$

$$1750_{fac^2\ sum} = [[2]^2, [5]^2, [5]^2, [5]^2, [7]^2] = [2]^7, \text{累乘}_{No(1)} = [E=2, H=7]$$

$$1755_{fac\ sum} = [[3], [3], [3], [5], [13]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$NN(1758 = Level(2)_{No(300)})$$

$$G\left( \begin{matrix} 1758_{Fac(2, 3, 293)} \text{ SUM}=298 = LV \\ \frac{\{2\}}{[2]} \end{matrix} \right)$$

$$G\left( \begin{matrix} 298_{Fac(2, 149)} \text{ SUM}=151 = LV \\ \frac{\{1\}}{[2]} \end{matrix} \right)$$

$$StopPrime(151)$$

$$NN(1765 = Level(2)_{No(301)})$$

$$G\left( \begin{matrix} 1765_{Fac(5, 353)} \text{ SUM}=358 = LV \\ \frac{\{2\}}{[2]} \end{matrix} \right)$$

$$G\left( \begin{matrix} 358_{Fac(2, 179)} \text{ SUM}=181 = LV \\ \frac{\{1\}}{[2]} \end{matrix} \right)$$

$$StopPrime(181)$$

$$1767_{fac^2\ sum} = [[3]^2, [19]^2, [31]^2] = [11]^3, \text{累乘}_{No(1)} = [E=2, H=3]$$

$$1768_{fac\ sum} = [[2], [2], [2], [13], [17]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1775_{fac\ sum} = [[5], [5], [71]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1775_{fac\ sum} = [[5], [5], [71]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$1782_{fac\ sum} = [[2], [3], [3], [3], [3], [11]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1785_{fac\ sum} = [[3], [5], [7], [17]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$1792_{fac^2\ sum} = [[2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [7]^2] = [9]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$1792_{fac^2\ sum} = [[2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [7]^2] = [3]^4, \text{累乘}_{No(2)} = [E=2, H=4]$$

$$1808_{fac\ sum} = [[2], [2], [2], [2], [113]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1824_{fac\ sum} = [[2], [2], [2], [2], [2], [3], [19]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$1836_{fac^2\ sum} = [[2]^2, [2]^2, [3]^2, [3]^2, [3]^2, [17]^2] = [18]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$\begin{aligned}
& NN(1839 = Level(5)_{No(300)}) \\
& G\left(1839_{Fac(3, 613) SUM=616} = LV \frac{\{5\}}{[5]}\right) \\
& G\left(616_{Fac(2, 2, 2, 7, 11) SUM=24} = LV \frac{\{4\}}{[5]}\right) \\
& G\left(24_{Fac(2, 2, 2, 3) SUM=9} = LV \frac{\{3\}}{[5]}\right) \\
& G\left(9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[5]}\right) \\
& G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right) \\
& \text{StopPrime}(5)
\end{aligned}$$

$$1840_{facsum=[2], [2], [2], [2], [5], [23]]} = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$\begin{aligned}
& NN(1841 = Level(5)_{No(301)}) \\
& G\left(1841_{Fac(7, 263) SUM=270} = LV \frac{\{5\}}{[5]}\right) \\
& G\left(270_{Fac(2, 3, 3, 3, 5) SUM=16} = LV \frac{\{4\}}{[5]}\right) \\
& G\left(16_{Fac(2, 2, 2, 2) SUM=8} = LV \frac{\{3\}}{[5]}\right) \\
& G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[5]}\right) \\
& G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right) \\
& \text{StopPrime}(5)
\end{aligned}$$

$$\begin{aligned}
& NN(1843 = Level(6)_{No(100)}) \\
& G\left(1843_{Fac(19, 97) SUM=116} = LV \frac{\{6\}}{[6]}\right) \\
& G\left(116_{Fac(2, 2, 29) SUM=33} = LV \frac{\{5\}}{[6]}\right) \\
& G\left(33_{Fac(3, 11) SUM=14} = LV \frac{\{4\}}{[6]}\right) \\
& G\left(14_{Fac(2, 7) SUM=9} = LV \frac{\{3\}}{[6]}\right) \\
& G\left(9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[6]}\right) \\
& G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[6]}\right) \\
& \text{StopPrime}(5)
\end{aligned}$$

$$\begin{aligned}
& NN(1844 = Level(6)_{No(101)}) \\
& G\left(1844_{Fac(2, 2, 461) SUM=465} = LV \frac{\{6\}}{[6]}\right) \\
& G\left(465_{Fac(3, 5, 31) SUM=39} = LV \frac{\{5\}}{[6]}\right) \\
& G\left(39_{Fac(3, 13) SUM=16} = LV \frac{\{4\}}{[6]}\right) \\
& G\left(16_{Fac(2, 2, 2, 2) SUM=8} = LV \frac{\{3\}}{[6]}\right) \\
& G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[6]}\right) \\
& G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[6]}\right) \\
& StopPrime(5)
\end{aligned}$$

$$\begin{aligned}
1848_{facsum} &= [[2], [2], [2], [3], [7], [11]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3] \\
1850_{facsum} &= [[2], [5], [5], [37]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]
\end{aligned}$$

$$\begin{aligned}
& NN(1862 = Level(3)_{No(300)}) \\
& G\left(1862_{Fac(2, 7, 7, 19) SUM=35} = LV \frac{\{3\}}{[3]}\right) \\
& G\left(35_{Fac(5, 7) SUM=12} = LV \frac{\{2\}}{[3]}\right) \\
& G\left(12_{Fac(2, 2, 3) SUM=7} = LV \frac{\{1\}}{[3]}\right) \\
& StopPrime(7)
\end{aligned}$$

$$\begin{aligned}
& NN(1863 = Level(3)_{No(301)}) \\
& G\left(1863_{Fac(3, 3, 3, 3, 23) SUM=35} = LV \frac{\{3\}}{[3]}\right) \\
& G\left(35_{Fac(5, 7) SUM=12} = LV \frac{\{2\}}{[3]}\right) \\
& G\left(12_{Fac(2, 2, 3) SUM=7} = LV \frac{\{1\}}{[3]}\right) \\
& StopPrime(7)
\end{aligned}$$

$$1872_{facsum} = [[2], [2], [2], [2], [3], [3], [13]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$1881_{facsum} = [[3], [3], [11], [19]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3 \text{ つ子 } \left[ \begin{matrix} 1901_{P_1}, [6], 1907_{P_2}, [6], 1913_{P_3} \end{matrix} \right] = [KK([6]) = No(21)]$$



$$1904_{facsum} = [[2], [2], [2], [2], [7], [17]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$1922_{facsum} = [[2], [31], [31]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$1922_{facsum} = [[2], [31], [31]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$1922_{facsum} = [[2], [31], [31]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$1960_{facsum} = [[2], [2], [2], [5], [7], [7]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(1965 = Level(1)_{No(300)})$$

$$G\left(1965_{Fac(3, 5, 131) SUM=139} = LV \frac{\{1\}}{[1]}\right)$$

$$StopPrime(139)$$

$$NN(1974 = Level(1)_{No(301)})$$

$$G\left(1974_{Fac(2, 3, 7, 47) SUM=59} = LV \frac{\{1\}}{[1]}\right)$$

$$StopPrime(59)$$

$$1989_{facsum} = [[3], [3], [13], [17]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN = \{2000\}、DONE$$

$$2002_{fac^2 sum} = [[2]^2, [7]^2, [11]^2, [13]^2] = [7]^3, \text{累乘}_{No(1)} = [E=2, H=3]$$

$$2015_{facsum} = [[5], [13], [31]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2019_{facsum} = [[3], [673]] = [26]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2034_{facsum} = [[2], [3], [3], [113]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2044_{fac^3 sum} = [[2]^3, [2]^3, [7]^3, [73]^3] = [624]^2, \text{累乘}_{No(1)} = [E=3, H=2]$$

$$2052_{facsum} = [[2], [2], [3], [3], [3], [19]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$2059_{facsum} = [[29], [71]] = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2070_{facsum} = [[2], [3], [3], [5], [23]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2070_{fac^2 sum} = [[2]^2, [3]^2, [3]^2, [5]^2, [23]^2] = [24]^2, \text{累乘}_{No(2)} = [E=2, H=2]$$

$$2071_{facsum} = [[19], [109]] = [2]^7, \text{累乘}_{No(1)} = [E=1, H=7]$$

$$2079_{facsum} = [[3], [3], [3], [7], [11]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$2106_{facsum} = [[2], [3], [3], [3], [3], [13]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$2120_{facsum} = [[2], [2], [2], [5], [53]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2120_{facsum} = [[2], [2], [2], [5], [53]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$2120_{facsum} = [[2], [2], [2], [5], [53]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$\begin{aligned}
2125_{facsum} &= [[5], [5], [5], [17]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5] \\
2130_{facsum} &= [[2], [3], [5], [71]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2130_{facsum} &= [[2], [3], [5], [71]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4] \\
2142_{facsum} &= [[2], [3], [3], [7], [17]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5] \\
2145_{facsum} &= [[3], [5], [11], [13]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5] \\
2145_{fac^2sum} &= [[3]^2, [5]^2, [11]^2, [13]^2] = [18]^2, \text{累乘}_{No(2)} = [E=2, H=2] \\
2159_{facsum} &= [[17], [127]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2174_{facsum} &= [[2], [1087]] = [33]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2175_{fac^2sum} &= [[3]^2, [5]^2, [5]^2, [29]^2] = [30]^2, \text{累乘}_{No(1)} = [E=2, H=2] \\
2200_{facsum} &= [[2], [2], [2], [5], [5], [11]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3] \\
2205_{facsum} &= [[3], [3], [5], [7], [7]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2208_{facsum} &= [[2], [2], [2], [2], [2], [3], [23]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2211_{facsum} &= [[3], [11], [67]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2211_{facsum} &= [[3], [11], [67]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4] \\
2219_{facsum} &= [[7], [317]] = [18]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2220_{facsum} &= [[2], [2], [3], [5], [37]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2264_{facsum} &= [[2], [2], [2], [283]] = [17]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2272_{facsum} &= [[2], [2], [2], [2], [2], [71]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2272_{facsum} &= [[2], [2], [2], [2], [2], [71]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]
\end{aligned}$$

$$3 \text{ 子 } \left[ \begin{matrix} 2281_{P_1} \\ 2287_{P_2} \\ 2293_{P_3} \end{matrix} \right], [6], [6], [6] = [KK([6]) = No(22)]$$

$$\begin{aligned}
& NN(2285 = Level(2)_{No(400)}) \\
& G \left( \begin{matrix} 2285_{Fac(5, 457) SUM=462} = LV \\ \frac{\{2\}}{[2]} \end{matrix} \right) \\
& G \left( \begin{matrix} 462_{Fac(2, 3, 7, 11) SUM=23} = LV \\ \frac{\{1\}}{[2]} \end{matrix} \right) \\
& StopPrime(23)
\end{aligned}$$

$$2288_{facsum} = [[2], [2], [2], [2], [11], [13]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$\begin{aligned}
& NN(2291 = Level(2)_{No(401)}) \\
& G \left( \begin{matrix} 2291_{Fac(29, 79) SUM=108} = LV \\ \frac{\{2\}}{[2]} \end{matrix} \right)
\end{aligned}$$

$$G\left(108_{Fac(2, 2, 3, 3, 3)} SUM=13 = LV \frac{\{1\}}{[2]}\right)$$

*StopPrime(13)*

$$2352_{facsum} = [[2], [2], [2], [2], [3], [7], [7]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2368_{facsum} = [[2], [2], [2], [2], [2], [2], [37]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2385_{facsum} = [[3], [3], [5], [53]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2385_{facsum} = [[3], [3], [5], [53]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$2385_{facsum} = [[3], [3], [5], [53]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$2387_{facsum} = [[7], [11], [31]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2395_{facsum} = [[5], [479]] = [22]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2401_{fac^2sum} = [[7]^2, [7]^2, [7]^2, [7]^2] = [14]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$2401_{fac^4sum} = [[7]^4, [7]^4, [7]^4, [7]^4] = [98]^2, \text{累乘}_{No(2)} = [E=4, H=2]$$

$$2401_{fac^6sum} = [[7]^6, [7]^6, [7]^6, [7]^6] = [686]^2, \text{累乘}_{No(3)} = [E=6, H=2]$$

$$2401_{fac^8sum} = [[7]^8, [7]^8, [7]^8, [7]^8] = [4802]^2, \text{累乘}_{No(4)} = [E=8, H=2]$$

$$2401_{fac^{10}sum} = [[7]^{10}, [7]^{10}, [7]^{10}, [7]^{10}] = [33614]^2, \text{累乘}_{No(5)} = [E=10, H=2]$$

*NN(2412 = Level(5)\_{No(400)})*

$$G\left(2412_{Fac(2, 2, 3, 3, 67)} SUM=77 = LV \frac{\{5\}}{[5]}\right)$$

$$G\left(77_{Fac(7, 11)} SUM=18 = LV \frac{\{4\}}{[5]}\right)$$

$$G\left(18_{Fac(2, 3, 3)} SUM=8 = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(8_{Fac(2, 2, 2)} SUM=6 = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(6_{Fac(2, 3)} SUM=5 = LV \frac{\{1\}}{[5]}\right)$$

*StopPrime(5)*

$$2418_{facsum} = [[2], [3], [13], [31]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

*NN(2418 = Level(5)\_{No(401)})*

$$G\left(2418_{Fac(2, 3, 13, 31)} SUM=49 = LV \frac{\{5\}}{[5]}\right)$$

$$G\left(49_{Fac(7, 7)} SUM=14 = LV \frac{\{4\}}{[5]}\right)$$

$$G\left(14_{Fac(2, 7) \text{ SUM}=9} = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(9_{Fac(3, 3) \text{ SUM}=6} = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(6_{Fac(2, 3) \text{ SUM}=5} = LV \frac{\{1\}}{[5]}\right)$$

*StopPrime(5)*

$$2419_{facsum=[[41], [59]]} = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(2433 = Level(4)_{No(300)})$$

$$G\left(2433_{Fac(3, 811) \text{ SUM}=814} = LV \frac{\{4\}}{[4]}\right)$$

$$G\left(814_{Fac(2, 11, 37) \text{ SUM}=50} = LV \frac{\{3\}}{[4]}\right)$$

$$G\left(50_{Fac(2, 5, 5) \text{ SUM}=12} = LV \frac{\{2\}}{[4]}\right)$$

$$G\left(12_{Fac(2, 2, 3) \text{ SUM}=7} = LV \frac{\{1\}}{[4]}\right)$$

*StopPrime(7)*

$$NN(2443 = Level(4)_{No(301)})$$

$$G\left(2443_{Fac(7, 349) \text{ SUM}=356} = LV \frac{\{4\}}{[4]}\right)$$

$$G\left(356_{Fac(2, 2, 89) \text{ SUM}=93} = LV \frac{\{3\}}{[4]}\right)$$

$$G\left(93_{Fac(3, 31) \text{ SUM}=34} = LV \frac{\{2\}}{[4]}\right)$$

$$G\left(34_{Fac(2, 17) \text{ SUM}=19} = LV \frac{\{1\}}{[4]}\right)$$

*StopPrime(19)*

$$2444_{facsum=[[2], [2], [13], [47]]} = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2444_{facsum=[[2], [2], [13], [47]]} = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$2444_{facsum=[[2], [2], [13], [47]]} = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$2446_{facsum=[[2], [1223]]} = [35]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(2466 = Level(3)_{No(400)})$$

$$G\left(2466_{Fac(2, 3, 3, 137) \text{ SUM}=145} = LV \frac{\{3\}}{[3]}\right)$$

$$G\left(145_{Fac(5, 29) \text{ SUM}=34} = LV \frac{\{2\}}{[3]}\right)$$

$$G\left(34_{Fac(2, 17)} SUM=19 = LV \frac{\{1\}}{[3]}\right)$$

*StopPrime(19)*

$$2475_{facsum} = [[3], [3], [5], [5], [11]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$NN(2476 = Level(3)_{No(401)})$$

$$G\left(2476_{Fac(2, 2, 619)} SUM=623 = LV \frac{\{3\}}{[3]}\right)$$

$$G\left(623_{Fac(7, 89)} SUM=96 = LV \frac{\{2\}}{[3]}\right)$$

$$G\left(96_{Fac(2, 2, 2, 2, 2, 3)} SUM=13 = LV \frac{\{1\}}{[3]}\right)$$

*StopPrime(13)*

$$2484_{facsum} = [[2], [2], [3], [3], [3], [23]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2491_{facsum} = [[47], [53]] = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2492_{facsum} = [[2], [2], [7], [89]] = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2541_{facsum} = [[3], [7], [11], [11]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$2544_{facsum} = [[2], [2], [2], [2], [3], [53]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2544_{facsum} = [[2], [2], [2], [2], [3], [53]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$2544_{facsum} = [[2], [2], [2], [2], [3], [53]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$2547_{facsum} = [[3], [3], [283]] = [17]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2550_{facsum} = [[2], [3], [5], [5], [17]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$2556_{facsum} = [[2], [2], [3], [3], [71]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2556_{facsum} = [[2], [2], [3], [3], [71]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$2574_{facsum} = [[2], [3], [3], [11], [13]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$NN(2602 = Level(1)_{No(400)})$$

$$G\left(2602_{Fac(2, 1301)} SUM=1303 = LV \frac{\{1\}}{[1]}\right)$$

*StopPrime(1303)*

$$NN(2613 = Level(1)_{No(401)})$$

$$G\left(2613_{Fac(3, 13, 67)} SUM=83 = LV \frac{\{1\}}{[1]}\right)$$

*StopPrime(83)*

$$\begin{aligned}
2625_{fac\ sum} &= [[3], [5], [5], [5], [7]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2639_{fac\ sum} &= [[7], [13], [29]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2640_{fac\ sum} &= [[2], [2], [2], [2], [3], [5], [11]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3] \\
2646_{fac\ sum} &= [[2], [3], [3], [3], [7], [7]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2664_{fac\ sum} &= [[2], [2], [2], [3], [3], [37]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2696_{fac\ sum} &= [[2], [2], [2], [337]] = [7]^3, \text{累乘}_{No(1)} = [E=1, H=3] \\
2720_{fac\ sum} &= [[2], [2], [2], [2], [2], [5], [17]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5] \\
2730_{fac^2\ sum} &= [[2]^2, [3]^2, [5]^2, [7]^2, [13]^2] = [16]^2, \text{累乘}_{No(1)} = [E=2, H=2] \\
2730_{fac^2\ sum} &= [[2]^2, [3]^2, [5]^2, [7]^2, [13]^2] = [4]^4, \text{累乘}_{No(2)} = [E=2, H=4] \\
2730_{fac^2\ sum} &= [[2]^2, [3]^2, [5]^2, [7]^2, [13]^2] = [2]^8, \text{累乘}_{No(3)} = [E=2, H=8] \\
2730_{fac^4\ sum} &= [[2]^4, [3]^4, [5]^4, [7]^4, [13]^4] = [178]^2, \text{累乘}_{No(4)} = [E=4, H=2] \\
2734_{fac\ sum} &= [[2], [1367]] = [37]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2744_{fac\ sum} &= [[2], [2], [2], [7], [7], [7]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3] \\
2772_{fac^2\ sum} &= [[2]^2, [2]^2, [3]^2, [3]^2, [7]^2, [11]^2] = [14]^2, \text{累乘}_{No(1)} = [E=2, H=2] \\
2793_{fac\ sum} &= [[3], [7], [7], [19]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2800_{fac\ sum} &= [[2], [2], [2], [2], [5], [5], [7]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2800_{fac^3\ sum} &= [[2]^3, [2]^3, [2]^3, [2]^3, [5]^3, [5]^3, [7]^3] = [25]^2, \text{累乘}_{No(2)} = [E=3, H=2] \\
2800_{fac^3\ sum} &= [[2]^3, [2]^3, [2]^3, [2]^3, [5]^3, [5]^3, [7]^3] = [5]^4, \text{累乘}_{No(3)} = [E=3, H=4] \\
2805_{fac\ sum} &= [[3], [5], [11], [17]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
2816_{fac\ sum} &= [[2], [2], [2], [2], [2], [2], [2], [2], [11]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]
\end{aligned}$$

$$\begin{aligned}
& NN(2823 = Level(2)_{No(500)}) \\
& G\left(2823_{Fac(3, 941) SUM=944} = LV \frac{\{2\}}{[2]}\right) \\
& G\left(944_{Fac(2, 2, 2, 2, 59) SUM=67} = LV \frac{\{1\}}{[2]}\right) \\
& \text{StopPrime}(67)
\end{aligned}$$

$$\begin{aligned}
& NN(2826 = Level(2)_{No(501)}) \\
& G\left(2826_{Fac(2, 3, 3, 157) SUM=165} = LV \frac{\{2\}}{[2]}\right) \\
& G\left(165_{Fac(3, 5, 11) SUM=19} = LV \frac{\{1\}}{[2]}\right) \\
& \text{StopPrime}(19)
\end{aligned}$$

$$2835_{fac^3 sum} = [[3]^3, [3]^3, [3]^3, [3]^3, [5]^3, [7]^3] = [24]^2, \text{累乘}_{No(1)} = [E=3, H=2]$$

$$2855_{fac sum} = [[5], [571]] = [24]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3 \text{ つ子2連} \left[ \begin{matrix} 2897_{P_1}, [6], 2903_{P_2}, [6], 2909_{P_3} \end{matrix} \right] = [KK([6]) = No(24), 2 Ren]$$

$$2862_{fac sum} = [[2], [3], [3], [3], [53]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2862_{fac sum} = [[2], [3], [3], [3], [53]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$2862_{fac sum} = [[2], [3], [3], [3], [53]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$2874_{fac sum} = [[2], [3], [479]] = [22]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2882_{fac sum} = [[2], [11], [131]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2924_{fac sum} = [[2], [2], [17], [43]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2924_{fac sum} = [[2], [2], [17], [43]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$2924_{fac sum} = [[2], [2], [17], [43]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$3 \text{ つ子2連} \left[ \begin{matrix} 2957_{P_1}, [6], 2963_{P_2}, [6], 2969_{P_3} \end{matrix} \right] = [KK([6]) = No(25), 2 Ren]$$

$$2938_{fac sum} = [[2], [13], [113]] = [2]^7, \text{累乘}_{No(1)} = [E=1, H=7]$$

$$\begin{aligned}
 & NN(2958 = Level(5)_{No(500)}) \\
 & G \left( \begin{matrix} 2958_{Fac(2, 3, 17, 29) SUM=51} = LV \frac{\{5\}}{[5]} \\ 51_{Fac(3, 17) SUM=20} = LV \frac{\{4\}}{[5]} \\ 20_{Fac(2, 2, 5) SUM=9} = LV \frac{\{3\}}{[5]} \\ 9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[5]} \\ 6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]} \end{matrix} \right) \\
 & StopPrime(5)
 \end{aligned}$$

$$\begin{aligned}
 & NN(2959 = Level(5)_{No(501)}) \\
 & G \left( \begin{matrix} 2959_{Fac(11, 269) SUM=280} = LV \frac{\{5\}}{[5]} \\ 280_{Fac(2, 2, 2, 5, 7) SUM=18} = LV \frac{\{4\}}{[5]} \end{matrix} \right)
 \end{aligned}$$

$$G\left(18_{Fac(2, 3, 3) SUM=8} = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right)$$

*StopPrime(5)*

$$2970_{facsum} = [[2], [3], [3], [3], [5], [11]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$2991_{facsum} = [[3], [997]] = [10]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$2992_{facsum} = [[2], [2], [2], [2], [11], [17]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$2997_{facsum} = [[3], [3], [3], [3], [37]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

*NN = {3000}、DONE*

$$3002_{facsum} = [[2], [19], [79]] = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3007_{facsum} = [[31], [97]] = [2]^7, \text{累乘}_{No(1)} = [E=1, H=7]$$

$$3025_{facsum} = [[5], [5], [11], [11]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$3033_{facsum} = [[3], [3], [337]] = [7]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$3043_{facsum} = [[17], [179]] = [14]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3059_{facsum} = [[7], [19], [23]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3060_{facsum} = [[2], [2], [3], [3], [5], [17]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$3063_{facsum} = [[3], [1021]] = [32]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3063_{facsum} = [[3], [1021]] = [4]^5, \text{累乘}_{No(2)} = [E=1, H=5]$$

$$3063_{facsum} = [[3], [1021]] = [2]^{10}, \text{累乘}_{No(3)} = [E=1, H=10]$$

$$3072_{fac^2 sum} = [[2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [3]^2] = [7]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$3072_{fac^6 sum} = [[2]^6, [2]^6, [2]^6, [2]^6, [2]^6, [2]^6, [2]^6, [2]^6, [2]^6, [2]^6, [3]^6] = [37]^2, \text{累乘}_{No(2)} = [E=6, H=2]$$

$$3087_{facsum} = [[3], [3], [7], [7], [7]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$3111_{facsum} = [[3], [17], [61]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3111_{facsum} = [[3], [17], [61]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$3116_{facsum} = [[2], [2], [19], [41]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3116_{facsum} = [[2], [2], [19], [41]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$3116_{facsum} = [[2], [2], [19], [41]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

*NN(3116 = Level(3)\_{No(500)})*



$$G\left(3116_{Fac(2, 2, 19, 41) SUM=64} = LV \frac{\{3\}}{[3]}\right)$$

$$G\left(64_{Fac(2, 2, 2, 2, 2) SUM=12} = LV \frac{\{2\}}{[3]}\right)$$

$$G\left(12_{Fac(2, 2, 3) SUM=7} = LV \frac{\{1\}}{[3]}\right)$$

*StopPrime(7)*

$$NN(3124 = Level(3)_{No(501)})$$

$$G\left(3124_{Fac(2, 2, 11, 71) SUM=86} = LV \frac{\{3\}}{[3]}\right)$$

$$G\left(86_{Fac(2, 43) SUM=45} = LV \frac{\{2\}}{[3]}\right)$$

$$G\left(45_{Fac(3, 3, 5) SUM=11} = LV \frac{\{1\}}{[3]}\right)$$

*StopPrime(11)*

$$3125_{fac\ sum = [[5], [5], [5], [5], [5]]} = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3125_{fac^2\ sum = [[5]^2, [5]^2, [5]^2, [5]^2, [5]^2]} = [5]^3, \text{累乘}_{No(2)} = [E=2, H=3]$$

$$3125_{fac^3\ sum = [[5]^3, [5]^3, [5]^3, [5]^3, [5]^3]} = [25]^2, \text{累乘}_{No(3)} = [E=3, H=2]$$

$$3125_{fac^3\ sum = [[5]^3, [5]^3, [5]^3, [5]^3, [5]^3]} = [5]^4, \text{累乘}_{No(4)} = [E=3, H=4]$$

$$3125_{fac^4\ sum = [[5]^4, [5]^4, [5]^4, [5]^4, [5]^4]} = [5]^5, \text{累乘}_{No(5)} = [E=4, H=5]$$

$$3125_{fac^5\ sum = [[5]^5, [5]^5, [5]^5, [5]^5, [5]^5]} = [125]^2, \text{累乘}_{No(6)} = [E=5, H=2]$$

$$3125_{fac^5\ sum = [[5]^5, [5]^5, [5]^5, [5]^5, [5]^5]} = [25]^3, \text{累乘}_{No(7)} = [E=5, H=3]$$

$$3125_{fac^5\ sum = [[5]^5, [5]^5, [5]^5, [5]^5, [5]^5]} = [5]^6, \text{累乘}_{No(8)} = [E=5, H=6]$$

$$3125_{fac^6\ sum = [[5]^6, [5]^6, [5]^6, [5]^6, [5]^6]} = [5]^7, \text{累乘}_{No(9)} = [E=6, H=7]$$

$$3125_{fac^7\ sum = [[5]^7, [5]^7, [5]^7, [5]^7, [5]^7]} = [625]^2, \text{累乘}_{No(10)} = [E=7, H=2]$$

$$3125_{fac^7\ sum = [[5]^7, [5]^7, [5]^7, [5]^7, [5]^7]} = [25]^4, \text{累乘}_{No(11)} = [E=7, H=4]$$

$$3125_{fac^7\ sum = [[5]^7, [5]^7, [5]^7, [5]^7, [5]^7]} = [5]^8, \text{累乘}_{No(12)} = [E=7, H=8]$$

$$3125_{fac^8\ sum = [[5]^8, [5]^8, [5]^8, [5]^8, [5]^8]} = [125]^3, \text{累乘}_{No(13)} = [E=8, H=3]$$

$$3125_{fac^8\ sum = [[5]^8, [5]^8, [5]^8, [5]^8, [5]^8]} = [5]^9, \text{累乘}_{No(14)} = [E=8, H=9]$$

$$3125_{fac^9\ sum = [[5]^9, [5]^9, [5]^9, [5]^9, [5]^9]} = [3125]^2, \text{累乘}_{No(15)} = [E=9, H=2]$$

$$3125_{fac^9\ sum = [[5]^9, [5]^9, [5]^9, [5]^9, [5]^9]} = [25]^5, \text{累乘}_{No(16)} = [E=9, H=5]$$

$$3125_{fac^9\ sum = [[5]^9, [5]^9, [5]^9, [5]^9, [5]^9]} = [5]^{10}, \text{累乘}_{No(17)} = [E=9, H=10]$$

$$3125_{fac^{10} sum} = [[5]^{10}, [5]^{10}, [5]^{10}, [5]^{10}, [5]^{10}] = [5]^{11}, \text{累乗}_{No(18)} = [E=10, H=11]$$

$$\begin{aligned}
 & NN(3139 = Level(6)_{No(200)}) \\
 & G\left(3139_{Fac(43, 73) SUM=116} = LV \frac{\{6\}}{[6]}\right) \\
 & G\left(116_{Fac(2, 2, 29) SUM=33} = LV \frac{\{5\}}{[6]}\right) \\
 & G\left(33_{Fac(3, 11) SUM=14} = LV \frac{\{4\}}{[6]}\right) \\
 & G\left(14_{Fac(2, 7) SUM=9} = LV \frac{\{3\}}{[6]}\right) \\
 & G\left(9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[6]}\right) \\
 & G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[6]}\right) \\
 & \text{StopPrime}(5)
 \end{aligned}$$

$$\begin{aligned}
 & NN(3148 = Level(6)_{No(201)}) \\
 & G\left(3148_{Fac(2, 2, 787) SUM=791} = LV \frac{\{6\}}{[6]}\right) \\
 & G\left(791_{Fac(7, 113) SUM=120} = LV \frac{\{5\}}{[6]}\right) \\
 & G\left(120_{Fac(2, 2, 2, 3, 5) SUM=14} = LV \frac{\{4\}}{[6]}\right) \\
 & G\left(14_{Fac(2, 7) SUM=9} = LV \frac{\{3\}}{[6]}\right) \\
 & G\left(9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[6]}\right) \\
 & G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[6]}\right) \\
 & \text{StopPrime}(5)
 \end{aligned}$$

$$3150_{fac sum} = [[2], [3], [3], [5], [5], [7]] = [5]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$3150_{fac^2 sum} = [[2]^2, [3]^2, [3]^2, [5]^2, [5]^2, [7]^2] = [11]^2, \text{累乗}_{No(2)} = [E=2, H=2]$$

$$3168_{fac sum} = [[2], [2], [2], [2], [2], [3], [3], [11]] = [3]^3, \text{累乗}_{No(1)} = [E=1, H=3]$$

$$3170_{fac sum} = [[2], [5], [317]] = [18]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$3185_{fac sum} = [[5], [7], [7], [13]] = [2]^5, \text{累乗}_{No(1)} = [E=1, H=5]$$

$$3 \text{ つ子2連} \left[ \begin{matrix} 3301 \\ P_1 \end{matrix}, [6], \begin{matrix} 3307 \\ P_2 \end{matrix}, [6], \begin{matrix} 3313 \\ P_3 \end{matrix} \right] = [KK([6]) = No(26), 2 Ren]$$

$$3264_{facsum} = [[2], [2], [2], [2], [2], [2], [3], [17]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$3283_{facsum} = [[7], [7], [67]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3283_{facsum} = [[7], [7], [67]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$3325_{facsum} = [[5], [5], [7], [19]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(3328 = Level(1)_{No(500)})$$

$$G\left(3328_{Fac(2, 2, 2, 2, 2, 2, 2, 13)} SUM=29 = LV \frac{\{1\}}{[1]}\right)$$

$$StopPrime(29)$$

$$NN(3334 = Level(1)_{No(501)})$$

$$G\left(3334_{Fac(2, 1667)} SUM=1669 = LV \frac{\{1\}}{[1]}\right)$$

$$StopPrime(1669)$$

$$3360_{facsum} = [[2], [2], [2], [2], [2], [3], [5], [7]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3363_{facsum} = [[3], [19], [59]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3363_{facsum} = [[3], [19], [59]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$3366_{facsum} = [[2], [3], [3], [11], [17]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3383_{facsum} = [[17], [199]] = [6]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$NN(3386 = Level(4)_{No(400)})$$

$$G\left(3386_{Fac(2, 1693)} SUM=1695 = LV \frac{\{4\}}{[4]}\right)$$

$$G\left(1695_{Fac(3, 5, 113)} SUM=121 = LV \frac{\{3\}}{[4]}\right)$$

$$G\left(121_{Fac(11, 11)} SUM=22 = LV \frac{\{2\}}{[4]}\right)$$

$$G\left(22_{Fac(2, 11)} SUM=13 = LV \frac{\{1\}}{[4]}\right)$$

$$StopPrime(13)$$

$$NN(3387 = Level(4)_{No(401)})$$

$$G\left(3387_{Fac(3, 1129)} SUM=1132 = LV \frac{\{4\}}{[4]}\right)$$

$$G\left(1132_{Fac(2, 2, 283)} SUM=287 = LV \frac{\{3\}}{[4]}\right)$$

$$G\left(287_{Fac(7, 41)} SUM=48 = LV \frac{\{2\}}{[4]}\right)$$

$$G\left(48_{Fac(2, 2, 2, 2, 3) SUM=11} = LV \frac{\{1\}}{[4]}\right)$$

*StopPrime(11)*

$$3404_{facsum=[[2], [2], [23], [37]]} = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3404_{facsum=[[2], [2], [23], [37]]} = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$3404_{facsum=[[2], [2], [23], [37]]} = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$3410_{facsum=[[2], [5], [11], [31]]} = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(3420 = Level(2)_{No(600)})$$

$$G\left(3420_{Fac(2, 2, 3, 3, 5, 19) SUM=34} = LV \frac{\{2\}}{[2]}\right)$$

$$G\left(34_{Fac(2, 17) SUM=19} = LV \frac{\{1\}}{[2]}\right)$$

*StopPrime(19)*

$$NN(3422 = Level(2)_{No(601)})$$

$$G\left(3422_{Fac(2, 29, 59) SUM=90} = LV \frac{\{2\}}{[2]}\right)$$

$$G\left(90_{Fac(2, 3, 3, 5) SUM=13} = LV \frac{\{1\}}{[2]}\right)$$

*StopPrime(13)*

$$3426_{facsum=[[2], [3], [571]]} = [24]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3443_{facsum=[[11], [313]]} = [18]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(3443 = Level(5)_{No(600)})$$

$$G\left(3443_{Fac(11, 313) SUM=324} = LV \frac{\{5\}}{[5]}\right)$$

$$G\left(324_{Fac(2, 2, 3, 3, 3, 3) SUM=16} = LV \frac{\{4\}}{[5]}\right)$$

$$G\left(16_{Fac(2, 2, 2, 2) SUM=8} = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right)$$

*StopPrime(5)*

$$NN(3444 = Level(5)_{No(601)})$$

$$G\left(3444_{Fac(2, 2, 3, 7, 41)} SUM=55 = LV \frac{\{5\}}{[5]}\right)$$

$$G\left(55_{Fac(5, 11)} SUM=16 = LV \frac{\{4\}}{[5]}\right)$$

$$G\left(16_{Fac(2, 2, 2, 2)} SUM=8 = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(8_{Fac(2, 2, 2)} SUM=6 = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(6_{Fac(2, 3)} SUM=5 = LV \frac{\{1\}}{[5]}\right)$$

StopPrime(5)

$$3459_{facsum} = [[3], [1153]] = [34]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3503_{facsum} = [[31], [113]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3510_{fac^2sum} = [[2]^2, [3]^2, [3]^2, [3]^2, [5]^2, [13]^2] = [15]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$3528_{fac^2sum} = [[2]^2, [2]^2, [2]^2, [3]^2, [3]^2, [7]^2, [7]^2] = [2]^7, \text{累乘}_{No(1)} = [E=2, H=7]$$

$$3531_{facsum} = [[3], [11], [107]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3549_{facsum} = [[3], [7], [13], [13]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3560_{facsum} = [[2], [2], [2], [5], [89]] = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3564_{facsum} = [[2], [2], [3], [3], [3], [3], [11]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$3584_{facsum} = [[2], [2], [2], [2], [2], [2], [2], [2], [2], [2], [7]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3596_{facsum} = [[2], [2], [29], [31]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3596_{facsum} = [[2], [2], [29], [31]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$3596_{facsum} = [[2], [2], [29], [31]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$3630_{facsum} = [[2], [3], [5], [11], [11]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$3672_{facsum} = [[2], [2], [2], [3], [3], [3], [17]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$3675_{facsum} = [[3], [5], [5], [7], [7]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$3690_{fac^2sum} = [[2]^2, [3]^2, [3]^2, [5]^2, [41]^2] = [12]^3, \text{累乘}_{No(1)} = [E=2, H=3]$$

$$3694_{facsum} = [[2], [1847]] = [43]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

NN(3695 = Level(3)<sub>No(600)</sub>)

$$G\left(3695_{Fac(5, 739)} SUM=744 = LV \frac{\{3\}}{[3]}\right)$$

$$G\left(744_{Fac(2, 2, 2, 3, 31)} SUM=40 = LV \frac{\{2\}}{[3]}\right)$$

$$G\left(40_{Fac(2, 2, 2, 5)} SUM=11 = LV \frac{\{1\}}{[3]}\right)$$

*StopPrime(11)*

$$\begin{aligned}
 & NN(3699 = Level(3)_{No(601)}) \\
 & G\left(3699_{Fac(3, 3, 3, 137) SUM=146} = LV \frac{\{3\}}{[3]}\right) \\
 & G\left(146_{Fac(2, 73) SUM=75} = LV \frac{\{2\}}{[3]}\right) \\
 & G\left(75_{Fac(3, 5, 5) SUM=13} = LV \frac{\{1\}}{[3]}\right)
 \end{aligned}$$

*StopPrime(13)*

$$3706_{fac\ sum=[[2], [17], [109]]} = [2]^7, \text{累乘}_{No(1)} = [E=1, H=7]$$

$$3 \curvearrowright \text{子} \left[ \begin{matrix} 3727_{P_1}, [6], 3733_{P_2}, [6], 3739_{P_3} \end{matrix} \right] = [KK([6]) = No(30)]$$

$$3743_{fac\ sum=[[19], [197]]} = [6]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$3750_{fac\ sum=[[2], [3], [5], [5], [5], [5]]} = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3770_{fac\ sum=[[2], [5], [13], [29]]} = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3773_{fac\ sum=[[7], [7], [7], [11]]} = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$3780_{fac\ sum=[[2], [2], [3], [3], [3], [5], [7]]} = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3804_{fac\ sum=[[2], [2], [3], [317]]} = [18]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3815_{fac\ sum=[[5], [7], [109]]} = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3822_{fac\ sum=[[2], [3], [7], [7], [13]]} = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$3840_{fac^3\ sum=[[2]^3, [2]^3, [2]^3, [2]^3, [2]^3, [2]^3, [2]^3, [2]^3, [3]^3, [5]^3]} = [6]^3, \text{累乘}_{No(1)} = [E=3, H=3]$$

$$3872_{fac\ sum=[[2], [2], [2], [2], [2], [11], [11]]} = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$3887_{fac\ sum=[[13], [13], [23]]} = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3920_{fac\ sum=[[2], [2], [2], [2], [5], [7], [7]]} = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$3955_{fac\ sum=[[5], [7], [113]]} = [5]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$\begin{aligned}
 & NN(3955 = Level(5)_{No(700)}) \\
 & G\left(3955_{Fac(5, 7, 113) SUM=125} = LV \frac{\{5\}}{[5]}\right) \\
 & G\left(125_{Fac(5, 5, 5) SUM=15} = LV \frac{\{4\}}{[5]}\right) \\
 & G\left(15_{Fac(3, 5) SUM=8} = LV \frac{\{3\}}{[5]}\right)
 \end{aligned}$$

$$G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right)$$

StopPrime(5)

$$NN(3956 = Level(5)_{No(701)})$$

$$G\left(3956_{Fac(2, 2, 23, 43) SUM=70} = LV \frac{\{5\}}{[5]}\right)$$

$$G\left(70_{Fac(2, 5, 7) SUM=14} = LV \frac{\{4\}}{[5]}\right)$$

$$G\left(14_{Fac(2, 7) SUM=9} = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right)$$

StopPrime(5)

$$3959_{facsum} = [[37], [107]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3971_{facsum} = [[11], [19], [19]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3979_{facsum} = [[23], [173]] = [14]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3983_{facsum} = [[7], [569]] = [24]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3990_{facsum} = [[2], [3], [5], [7], [19]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3993_{facsum} = [[3], [11], [11], [11]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

NN = {4000}、DONE

$$4000_{facsum} = [[2], [2], [2], [2], [2], [5], [5], [5]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4005_{facsum} = [[3], [3], [5], [89]] = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3 \text{ 子 } \left[ \begin{matrix} 4007_{P_1}, [6], 4013_{P_2}, [6], 4019_{P_3} \end{matrix} \right] = [KK([6]) = No(31)]$$

$$4032_{facsum} = [[2], [2], [2], [2], [2], [2], [3], [3], [7]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4043_{facsum} = [[13], [311]] = [18]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4063_{facsum} = [[17], [239]] = [16]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4063_{facsum} = [[17], [239]] = [4]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$4063_{facsum} = [[17], [239]] = [2]^8, \text{累乘}_{No(3)} = [E=1, H=8]$$

$$4066_{facsum} = [[2], [19], [107]] = [2]^7, \text{累乘}_{No(1)} = [E=1, H=7]$$

$$\begin{aligned}
& NN(4074 = Level(1)_{No(600)}) \\
& G\left(4074_{Fac(2, 3, 7, 97)} SUM=109 = LV \frac{\{1\}}{[1]}\right) \\
& StopPrime(109)
\end{aligned}$$

$$\begin{aligned}
& NN(4075 = Level(1)_{No(601)}) \\
& G\left(4075_{Fac(5, 5, 163)} SUM=173 = LV \frac{\{1\}}{[1]}\right) \\
& StopPrime(173)
\end{aligned}$$

$$4087_{fac\ sum=[[61], [67]]} = [2]^7, \text{累乘}_{No(1)} = [E=1, H=7]$$

$$\begin{aligned}
& NN(4090 = Level(2)_{No(700)}) \\
& G\left(4090_{Fac(2, 5, 409)} SUM=416 = LV \frac{\{2\}}{[2]}\right) \\
& G\left(416_{Fac(2, 2, 2, 2, 13)} SUM=23 = LV \frac{\{1\}}{[2]}\right) \\
& StopPrime(23)
\end{aligned}$$

$$4092_{fac\ sum=[[2], [2], [3], [11], [31]]} = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$\begin{aligned}
& NN(4103 = Level(2)_{No(701)}) \\
& G\left(4103_{Fac(11, 373)} SUM=384 = LV \frac{\{2\}}{[2]}\right) \\
& G\left(384_{Fac(2, 2, 2, 2, 2, 2, 3)} SUM=17 = LV \frac{\{1\}}{[2]}\right) \\
& StopPrime(17)
\end{aligned}$$

$$4104_{fac^2\ sum=[[2]^2, [2]^2, [2]^2, [3]^2, [3]^2, [3]^2, [19]^2]} = [20]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$4131_{fac\ sum=[[3], [3], [3], [3], [3], [17]]} = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$4136_{fac\ sum=[[2], [2], [2], [11], [47]]} = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4136_{fac\ sum=[[2], [2], [2], [11], [47]]} = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$4136_{fac\ sum=[[2], [2], [2], [11], [47]]} = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$4154_{fac\ sum=[[2], [31], [67]]} = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$\begin{aligned}
& NN(4164 = Level(4)_{No(500)}) \\
& G\left(4164_{Fac(2, 2, 3, 347)} SUM=354 = LV \frac{\{4\}}{[4]}\right)
\end{aligned}$$



$$\begin{aligned}
& G\left(354_{Fac(2, 3, 59) SUM=64} = LV \frac{\{3\}}{[4]}\right) \\
& G\left(64_{Fac(2, 2, 2, 2, 2) SUM=12} = LV \frac{\{2\}}{[4]}\right) \\
& G\left(12_{Fac(2, 2, 3) SUM=7} = LV \frac{\{1\}}{[4]}\right) \\
& \text{StopPrime}(7)
\end{aligned}$$

$$4165_{facsum=[[5], [7], [7], [17]]} = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$\begin{aligned}
& NN(4179 = Level(4)_{No(501)}) \\
& G\left(4179_{Fac(3, 7, 199) SUM=209} = LV \frac{\{4\}}{[4]}\right) \\
& G\left(209_{Fac(11, 19) SUM=30} = LV \frac{\{3\}}{[4]}\right) \\
& G\left(30_{Fac(2, 3, 5) SUM=10} = LV \frac{\{2\}}{[4]}\right) \\
& G\left(10_{Fac(2, 5) SUM=7} = LV \frac{\{1\}}{[4]}\right) \\
& \text{StopPrime}(7)
\end{aligned}$$

$$4184_{facsum=[[2], [2], [2], [523]]} = [23]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4199_{facsum=[[13], [17], [19]]} = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4215_{facsum=[[3], [5], [281]]} = [17]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4223_{facsum=[[41], [103]]} = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4225_{facsum=[[5], [5], [13], [13]]} = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4251_{facsum=[[3], [13], [109]]} = [5]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$4256_{facsum=[[2], [2], [2], [2], [2], [7], [19]]} = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4272_{facsum=[[2], [2], [2], [2], [3], [89]]} = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4279_{facsum=[[11], [389]]} = [20]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4305_{fac^2 sum=[[3]^2, [5]^2, [7]^2, [41]^2]} = [42]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$4316_{facsum=[[2], [2], [13], [83]]} = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$\begin{aligned}
& NN(4342 = Level(3)_{No(700)}) \\
& G\left(4342_{Fac(2, 13, 167) SUM=182} = LV \frac{\{3\}}{[3]}\right) \\
& G\left(182_{Fac(2, 7, 13) SUM=22} = LV \frac{\{2\}}{[3]}\right) \\
& G\left(22_{Fac(2, 11) SUM=13} = LV \frac{\{1\}}{[3]}\right)
\end{aligned}$$

*StopPrime(13)*

$$4343_{fac\ sum = [[43], [101]]} = [12]^2, \text{ 累乘}_{No(1)} = [E = 1, H = 2]$$

$$\begin{aligned}
 & NN(4353 = Level(6)_{No(300)}) \\
 & G\left(4353_{Fac(3, 1451) \ SUM = 1454} = LV \frac{\{6\}}{[6]}\right) \\
 & G\left(1454_{Fac(2, 727) \ SUM = 729} = LV \frac{\{5\}}{[6]}\right) \\
 & G\left(729_{Fac(3, 3, 3, 3, 3, 3) \ SUM = 18} = LV \frac{\{4\}}{[6]}\right) \\
 & G\left(18_{Fac(2, 3, 3) \ SUM = 8} = LV \frac{\{3\}}{[6]}\right) \\
 & G\left(8_{Fac(2, 2, 2) \ SUM = 6} = LV \frac{\{2\}}{[6]}\right) \\
 & G\left(6_{Fac(2, 3) \ SUM = 5} = LV \frac{\{1\}}{[6]}\right) \\
 & \text{StopPrime}(5)
 \end{aligned}$$

$$\begin{aligned}
 & NN(4355 = Level(3)_{No(701)}) \\
 & G\left(4355_{Fac(5, 13, 67) \ SUM = 85} = LV \frac{\{3\}}{[3]}\right) \\
 & G\left(85_{Fac(5, 17) \ SUM = 22} = LV \frac{\{2\}}{[3]}\right) \\
 & G\left(22_{Fac(2, 11) \ SUM = 13} = LV \frac{\{1\}}{[3]}\right) \\
 & \text{StopPrime}(13)
 \end{aligned}$$

$$4356_{fac\ sum = [[2], [2], [3], [3], [11], [11]]} = [2]^5, \text{ 累乘}_{No(1)} = [E = 1, H = 5]$$

$$\begin{aligned}
 & NN(4367 = Level(6)_{No(301)}) \\
 & G\left(4367_{Fac(11, 397) \ SUM = 408} = LV \frac{\{6\}}{[6]}\right) \\
 & G\left(408_{Fac(2, 2, 2, 3, 17) \ SUM = 26} = LV \frac{\{5\}}{[6]}\right) \\
 & G\left(26_{Fac(2, 13) \ SUM = 15} = LV \frac{\{4\}}{[6]}\right) \\
 & G\left(15_{Fac(3, 5) \ SUM = 8} = LV \frac{\{3\}}{[6]}\right) \\
 & G\left(8_{Fac(2, 2, 2) \ SUM = 6} = LV \frac{\{2\}}{[6]}\right) \\
 & G\left(6_{Fac(2, 3) \ SUM = 5} = LV \frac{\{1\}}{[6]}\right)
 \end{aligned}$$

*StopPrime(5)*

$$4368_{fac^2 sum} = [[2]^2, [2]^2, [2]^2, [2]^2, [3]^2, [7]^2, [13]^2] = [3]^5, \text{累乘}_{No(1)} = [E=2, H=5]$$

$$4370_{fac sum} = [[2], [5], [19], [23]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4371_{fac sum} = [[3], [31], [47]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4371_{fac sum} = [[3], [31], [47]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$4375_{fac sum} = [[5], [5], [5], [5], [7]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$4410_{fac sum} = [[2], [3], [3], [5], [7], [7]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$4414_{fac sum} = [[2], [2207]] = [47]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4439_{fac sum} = [[23], [193]] = [6]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$3 \curvearrowright \text{子} \left[ \begin{matrix} 4451 \\ P_1 \end{matrix}, [6], \begin{matrix} 4457 \\ P_2 \end{matrix}, [6], \begin{matrix} 4463 \\ P_3 \end{matrix} \right] = [KK([6]) = No(32)]$$

$$4466_{fac sum} = [[2], [7], [11], [29]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$\begin{aligned} & NN(4466 = Level(5)_{No(800)}) \\ & G \left( \begin{matrix} 4466_{Fac(2, 7, 11, 29) SUM=49} = LV \frac{\{5\}}{[5]} \end{matrix} \right) \\ & G \left( \begin{matrix} 49_{Fac(7, 7) SUM=14} = LV \frac{\{4\}}{[5]} \end{matrix} \right) \\ & G \left( \begin{matrix} 14_{Fac(2, 7) SUM=9} = LV \frac{\{3\}}{[5]} \end{matrix} \right) \\ & G \left( \begin{matrix} 9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[5]} \end{matrix} \right) \\ & G \left( \begin{matrix} 6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]} \end{matrix} \right) \end{aligned}$$

*StopPrime(5)*

$$\begin{aligned} & NN(4467 = Level(5)_{No(801)}) \\ & G \left( \begin{matrix} 4467_{Fac(3, 1489) SUM=1492} = LV \frac{\{5\}}{[5]} \end{matrix} \right) \\ & G \left( \begin{matrix} 1492_{Fac(2, 2, 373) SUM=377} = LV \frac{\{4\}}{[5]} \end{matrix} \right) \\ & G \left( \begin{matrix} 377_{Fac(13, 29) SUM=42} = LV \frac{\{3\}}{[5]} \end{matrix} \right) \\ & G \left( \begin{matrix} 42_{Fac(2, 3, 7) SUM=12} = LV \frac{\{2\}}{[5]} \end{matrix} \right) \\ & G \left( \begin{matrix} 12_{Fac(2, 2, 3) SUM=7} = LV \frac{\{1\}}{[5]} \end{matrix} \right) \end{aligned}$$

*StopPrime(7)*

- 4496<sub>fac sum</sub> = [[2], [2], [2], [2], [281]] = [17]<sup>2</sup>, 累乘<sub>No(1)</sub> = [E = 1, H = 2]
- 4500<sub>fac sum</sub> = [[2], [2], [3], [3], [5], [5], [5]] = [5]<sup>2</sup>, 累乘<sub>No(1)</sub> = [E = 1, H = 2]
- 4514<sub>fac sum</sub> = [[2], [37], [61]] = [10]<sup>2</sup>, 累乘<sub>No(1)</sub> = [E = 1, H = 2]
- 4524<sub>fac sum</sub> = [[2], [2], [3], [13], [29]] = [7]<sup>2</sup>, 累乘<sub>No(1)</sub> = [E = 1, H = 2]
- 4536<sub>fac sum</sub> = [[2], [2], [2], [3], [3], [3], [3], [7]] = [5]<sup>2</sup>, 累乘<sub>No(1)</sub> = [E = 1, H = 2]
- 4550<sub>fac sum</sub> = [[2], [5], [5], [7], [13]] = [2]<sup>5</sup>, 累乘<sub>No(1)</sub> = [E = 1, H = 5]
- 4551<sub>fac sum</sub> = [[3], [37], [41]] = [9]<sup>2</sup>, 累乘<sub>No(1)</sub> = [E = 1, H = 2]
- 4551<sub>fac sum</sub> = [[3], [37], [41]] = [3]<sup>4</sup>, 累乘<sub>No(2)</sub> = [E = 1, H = 4]
- 4559<sub>fac sum</sub> = [[47], [97]] = [12]<sup>2</sup>, 累乘<sub>No(1)</sub> = [E = 1, H = 2]
- 4578<sub>fac sum</sub> = [[2], [3], [7], [109]] = [11]<sup>2</sup>, 累乘<sub>No(1)</sub> = [E = 1, H = 2]

$$\begin{aligned}
 & NN(4617 = Level(2)_{No(800)}) \\
 & G\left(4617_{Fac(3, 3, 3, 3, 3, 19) SUM=34} = LV \frac{\{2\}}{[2]}\right) \\
 & G\left(34_{Fac(2, 17) SUM=19} = LV \frac{\{1\}}{[2]}\right) \\
 & \text{StopPrime}(19)
 \end{aligned}$$

$$\begin{aligned}
 & NN(4622 = Level(2)_{No(801)}) \\
 & G\left(4622_{Fac(2, 2311) SUM=2313} = LV \frac{\{2\}}{[2]}\right) \\
 & G\left(2313_{Fac(3, 3, 257) SUM=263} = LV \frac{\{1\}}{[2]}\right) \\
 & \text{StopPrime}(263)
 \end{aligned}$$

- 4625<sub>fac<sup>2</sup> sum</sub> = [[5]<sup>2</sup>, [5]<sup>2</sup>, [5]<sup>2</sup>, [37]<sup>2</sup>] = [38]<sup>2</sup>, 累乘<sub>No(1)</sub> = [E = 2, H = 2]
- 4650<sub>fac<sup>2</sup> sum</sub> = [[2]<sup>2</sup>, [3]<sup>2</sup>, [5]<sup>2</sup>, [5]<sup>2</sup>, [31]<sup>2</sup>] = [32]<sup>2</sup>, 累乘<sub>No(1)</sub> = [E = 2, H = 2]
- 4650<sub>fac<sup>2</sup> sum</sub> = [[2]<sup>2</sup>, [3]<sup>2</sup>, [5]<sup>2</sup>, [5]<sup>2</sup>, [31]<sup>2</sup>] = [4]<sup>5</sup>, 累乘<sub>No(2)</sub> = [E = 2, H = 5]
- 4650<sub>fac<sup>2</sup> sum</sub> = [[2]<sup>2</sup>, [3]<sup>2</sup>, [5]<sup>2</sup>, [5]<sup>2</sup>, [31]<sup>2</sup>] = [2]<sup>10</sup>, 累乘<sub>No(3)</sub> = [E = 2, H = 10]
- 4653<sub>fac sum</sub> = [[3], [3], [11], [47]] = [8]<sup>2</sup>, 累乘<sub>No(1)</sub> = [E = 1, H = 2]
- 4653<sub>fac sum</sub> = [[3], [3], [11], [47]] = [4]<sup>3</sup>, 累乘<sub>No(2)</sub> = [E = 1, H = 3]
- 4653<sub>fac sum</sub> = [[3], [3], [11], [47]] = [2]<sup>6</sup>, 累乘<sub>No(3)</sub> = [E = 1, H = 6]
- 4655<sub>fac<sup>2</sup> sum</sub> = [[5]<sup>2</sup>, [7]<sup>2</sup>, [7]<sup>2</sup>, [19]<sup>2</sup>] = [22]<sup>2</sup>, 累乘<sub>No(1)</sub> = [E = 2, H = 2]

$$NN(4659 = Level(9)_{No(1)})$$

$$G\left(4659_{Fac(3, 1553) SUM=1556 = LV \frac{\{9\}}{[9]}}\right)$$

$$G\left(1556_{Fac(2, 2, 389) SUM=393 = LV \frac{\{8\}}{[9]}}\right)$$

$$G\left(393_{Fac(3, 131) SUM=134 = LV \frac{\{7\}}{[9]}}\right)$$

$$G\left(134_{Fac(2, 67) SUM=69 = LV \frac{\{6\}}{[9]}}\right)$$

$$G\left(69_{Fac(3, 23) SUM=26 = LV \frac{\{5\}}{[9]}}\right)$$

$$G\left(26_{Fac(2, 13) SUM=15 = LV \frac{\{4\}}{[9]}}\right)$$

$$G\left(15_{Fac(3, 5) SUM=8 = LV \frac{\{3\}}{[9]}}\right)$$

$$G\left(8_{Fac(2, 2, 2) SUM=6 = LV \frac{\{2\}}{[9]}}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5 = LV \frac{\{1\}}{[9]}}\right)$$

StopPrime(5)

$$4690_{facsum} = [[2], [5], [7], [67]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4690_{facsum} = [[2], [5], [7], [67]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$4704_{facsum} = [[2], [2], [2], [2], [2], [3], [7], [7]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$4706_{facsum} = [[2], [13], [181]] = [14]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4707_{facsum} = [[3], [3], [523]] = [23]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4738_{facsum} = [[2], [23], [103]] = [2]^7, \text{累乘}_{No(1)} = [E=1, H=7]$$

$$4746_{facsum} = [[2], [3], [7], [113]] = [5]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$4750_{facsum} = [[2], [5], [5], [5], [19]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4752_{fac^3 sum} = [[2]^3, [2]^3, [2]^3, [2]^3, [3]^3, [3]^3, [3]^3, [11]^3] = [38]^2, \text{累乘}_{No(1)} = [E=3, H=2]$$

$$4788_{facsum} = [[2], [2], [3], [3], [7], [19]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4791_{facsum} = [[3], [1597]] = [40]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4798_{facsum} = [[2], [2399]] = [49]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4798_{facsum} = [[2], [2399]] = [7]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$4800_{facsum} = [[2], [2], [2], [2], [2], [2], [3], [5], [5]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4806_{facsum} = [[2], [3], [3], [3], [89]] = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4843_{facsum} = [[29], [167]] = [14]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$\begin{aligned}
& NN(4856 = Level(1)_{No(700)}) \\
& G\left(4856_{Fac(2, 2, 2, 607)} SUM=613 = LV \frac{\{1\}}{[1]}\right) \\
& \quad StopPrime(613)
\end{aligned}$$

$$\begin{aligned}
& NN(4862 = Level(1)_{No(701)}) \\
& G\left(4862_{Fac(2, 11, 13, 17)} SUM=43 = LV \frac{\{1\}}{[1]}\right) \\
& \quad StopPrime(43)
\end{aligned}$$

$$\begin{aligned}
& 4893_{fac\ sum = [[3], [7], [233]]} = [3]^5, \text{ 累乘}_{No(1)} = [E=1, H=5] \\
& 4900_{fac^4\ sum = [[2]^4, [2]^4, [5]^4, [5]^4, [7]^4, [7]^4]} = [78]^2, \text{ 累乘}_{No(1)} = [E=4, H=2] \\
& 4952_{fac\ sum = [[2], [2], [2], [619]]} = [25]^2, \text{ 累乘}_{No(1)} = [E=1, H=2] \\
& 4952_{fac\ sum = [[2], [2], [2], [619]]} = [5]^4, \text{ 累乘}_{No(2)} = [E=1, H=4] \\
& 4972_{fac\ sum = [[2], [2], [11], [113]]} = [2]^7, \text{ 累乘}_{No(1)} = [E=1, H=7]
\end{aligned}$$

$$\begin{aligned}
& NN(4977 = Level(5)_{No(900)}) \\
& G\left(4977_{Fac(3, 3, 7, 79)} SUM=92 = LV \frac{\{5\}}{[5]}\right) \\
& G\left(92_{Fac(2, 2, 23)} SUM=27 = LV \frac{\{4\}}{[5]}\right) \\
& G\left(27_{Fac(3, 3, 3)} SUM=9 = LV \frac{\{3\}}{[5]}\right) \\
& G\left(9_{Fac(3, 3)} SUM=6 = LV \frac{\{2\}}{[5]}\right) \\
& G\left(6_{Fac(2, 3)} SUM=5 = LV \frac{\{1\}}{[5]}\right) \\
& \quad StopPrime(5)
\end{aligned}$$

$$\begin{aligned}
& NN(4980 = Level(5)_{No(901)}) \\
& G\left(4980_{Fac(2, 2, 3, 5, 83)} SUM=95 = LV \frac{\{5\}}{[5]}\right) \\
& G\left(95_{Fac(5, 19)} SUM=24 = LV \frac{\{4\}}{[5]}\right) \\
& G\left(24_{Fac(2, 2, 2, 3)} SUM=9 = LV \frac{\{3\}}{[5]}\right) \\
& G\left(9_{Fac(3, 3)} SUM=6 = LV \frac{\{2\}}{[5]}\right)
\end{aligned}$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right)$$

*StopPrime(5)*

$$NN(4992 = Level(3)_{No(800)})$$

$$G\left(4992_{Fac(2, 2, 2, 2, 2, 2, 3, 13) SUM=30} = LV \frac{\{3\}}{[3]}\right)$$

$$G\left(30_{Fac(2, 3, 5) SUM=10} = LV \frac{\{2\}}{[3]}\right)$$

$$G\left(10_{Fac(2, 5) SUM=7} = LV \frac{\{1\}}{[3]}\right)$$

*StopPrime(7)*

$$NN(4997 = Level(3)_{No(801)})$$

$$G\left(4997_{Fac(19, 263) SUM=282} = LV \frac{\{3\}}{[3]}\right)$$

$$G\left(282_{Fac(2, 3, 47) SUM=52} = LV \frac{\{2\}}{[3]}\right)$$

$$G\left(52_{Fac(2, 2, 13) SUM=17} = LV \frac{\{1\}}{[3]}\right)$$

*StopPrime(17)*

$$4998_{fac\ sum = [[2], [3], [7], [7], [17]]} = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$4998_{fac^2\ sum = [[2]^2, [3]^2, [7]^2, [7]^2, [17]^2]} = [20]^2, \text{累乘}_{No(2)} = [E=2, H=2]$$

*NN = {5000}、DONE*

$$5005_{fac\ sum = [[5], [7], [11], [13]]} = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5015_{fac\ sum = [[5], [17], [59]]} = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5015_{fac\ sum = [[5], [17], [59]]} = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$NN(5052 = Level(4)_{No(600)})$$

$$G\left(5052_{Fac(2, 2, 3, 421) SUM=428} = LV \frac{\{4\}}{[4]}\right)$$

$$G\left(428_{Fac(2, 2, 107) SUM=111} = LV \frac{\{3\}}{[4]}\right)$$

$$G\left(111_{Fac(3, 37) SUM=40} = LV \frac{\{2\}}{[4]}\right)$$

$$G\left(40_{Fac(2, 2, 2, 5) SUM=11} = LV \frac{\{1\}}{[4]}\right)$$

*StopPrime(11)*

$$\begin{aligned}
& NN(5057 = Level(4)_{No(601)}) \\
& G\left(5057_{Fac(13, 389) SUM=402} = LV \frac{\{4\}}{[4]}\right) \\
& G\left(402_{Fac(2, 3, 67) SUM=72} = LV \frac{\{3\}}{[4]}\right) \\
& G\left(72_{Fac(2, 2, 2, 3, 3) SUM=12} = LV \frac{\{2\}}{[4]}\right) \\
& G\left(12_{Fac(2, 2, 3) SUM=7} = LV \frac{\{1\}}{[4]}\right) \\
& StopPrime(7)
\end{aligned}$$

$$5058_{facsum} = [[2], [3], [3], [281]] = [17]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5063_{facsum} = [[61], [83]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5070_{facsum} = [[2], [3], [5], [13], [13]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3 \text{ つ子2連} \left[ \begin{matrix} 5107_P1, [6], 5113_P2, [6], 5119_P3 \\ \left[ \begin{matrix} 5107_P1, [6], 5113_P2, [6], 5119_P3 \end{matrix} \right] \end{matrix} \right] = [KK([6]) = No(35), 2 Ren]$$

$$5095_{facsum} = [[5], [1019]] = [32]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5095_{facsum} = [[5], [1019]] = [4]^5, \text{累乘}_{No(2)} = [E=1, H=5]$$

$$5095_{facsum} = [[5], [1019]] = [2]^{10}, \text{累乘}_{No(3)} = [E=1, H=10]$$

$$5103_{facsum} = [[3], [3], [3], [3], [3], [3], [7]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5117_{fac^2sum} = [[7]^2, [17]^2, [43]^2] = [3]^7, \text{累乘}_{No(1)} = [E=2, H=7]$$

$$5120_{facsum} = [[2], [2], [2], [2], [2], [2], [2], [2], [2], [2], [2], [5]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5151_{facsum} = [[3], [17], [101]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5183_{facsum} = [[71], [73]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5219_{facsum} = [[17], [307]] = [18]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$\begin{aligned}
& NN(5238 = Level(2)_{No(900)}) \\
& G\left(5238_{Fac(2, 3, 3, 3, 97) SUM=108} = LV \frac{\{2\}}{[2]}\right) \\
& G\left(108_{Fac(2, 2, 3, 3, 3) SUM=13} = LV \frac{\{1\}}{[2]}\right) \\
& StopPrime(13)
\end{aligned}$$

$$NN(5240 = Level(2)_{No(901)})$$



$$G\left(5240_{Fac(2, 2, 2, 5, 131) SUM=142} = LV \frac{\{2\}}{[2]}\right)$$

$$G\left(142_{Fac(2, 71) SUM=73} = LV \frac{\{1\}}{[2]}\right)$$

*StopPrime(73)*

$$5243_{facsum} = [[7], [7], [107]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5244_{facsum} = [[2], [2], [3], [19], [23]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5250_{facsum} = [[2], [3], [5], [5], [5], [7]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$3 \text{ つ子2連} \left[ \begin{matrix} 5297_{P_1}, [6], 5303_{P_2}, [6], 5309_{P_3} \end{matrix} \right] = [KK([6]) = No(37), 2 Ren]$$

$$5292_{facsum} = [[2], [2], [3], [3], [3], [7], [7]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$5295_{facsum} = [[3], [5], [353]] = [19]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5308_{facsum} = [[2], [2], [1327]] = [11]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$3 \text{ つ子2連} \left[ \begin{matrix} 5381_{P_1}, [6], 5387_{P_2}, [6], 5393_{P_3} \end{matrix} \right] = [KK([6]) = No(38), 2 Ren]$$

$$5359_{facsum} = [[23], [233]] = [16]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5359_{facsum} = [[23], [233]] = [4]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$5359_{facsum} = [[23], [233]] = [2]^8, \text{累乘}_{No(3)} = [E=1, H=8]$$

$$5372_{facsum} = [[2], [2], [17], [79]] = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3 \text{ つ子} \left[ \begin{matrix} 5387_{P_1}, [6], 5393_{P_2}, [6], 5399_{P_3} \end{matrix} \right] = [KK([6]) = No(40)]$$

$$5390_{facsum} = [[2], [5], [7], [7], [11]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$5400_{facsum} = [[2], [2], [2], [3], [3], [3], [5], [5]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5408_{facsum} = [[2], [2], [2], [2], [2], [13], [13]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5450_{facsum} = [[2], [5], [5], [109]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

*NN(5455 = Level(6)\_{No(400)})*

$$G\left(5455_{Fac(5, 1091) SUM=1096} = LV \frac{\{6\}}{[6]}\right)$$

$$G\left(1096_{Fac(2, 2, 2, 137) SUM=143} = LV \frac{\{5\}}{[6]}\right)$$

$$\begin{aligned}
& G\left(143_{Fac(11, 13) SUM=24} = LV \frac{\{4\}}{[6]}\right) \\
& G\left(24_{Fac(2, 2, 2, 3) SUM=9} = LV \frac{\{3\}}{[6]}\right) \\
& G\left(9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[6]}\right) \\
& G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[6]}\right) \\
& \text{StopPrime}(5)
\end{aligned}$$

$$5460_{facsum=[[2], [2], [3], [5], [7], [13]]} = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$\begin{aligned}
& NN(5464 = Level(6)_{No(401)}) \\
& G\left(5464_{Fac(2, 2, 2, 683) SUM=689} = LV \frac{\{6\}}{[6]}\right) \\
& G\left(689_{Fac(13, 53) SUM=66} = LV \frac{\{5\}}{[6]}\right) \\
& G\left(66_{Fac(2, 3, 11) SUM=16} = LV \frac{\{4\}}{[6]}\right) \\
& G\left(16_{Fac(2, 2, 2, 2) SUM=8} = LV \frac{\{3\}}{[6]}\right) \\
& G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[6]}\right) \\
& G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[6]}\right) \\
& \text{StopPrime}(5)
\end{aligned}$$

$$5474_{facsum=[[2], [7], [17], [23]]} = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$\begin{aligned}
& NN(5476 = Level(5)_{No(1000)}) \\
& G\left(5476_{Fac(2, 2, 37, 37) SUM=78} = LV \frac{\{5\}}{[5]}\right) \\
& G\left(78_{Fac(2, 3, 13) SUM=18} = LV \frac{\{4\}}{[5]}\right) \\
& G\left(18_{Fac(2, 3, 3) SUM=8} = LV \frac{\{3\}}{[5]}\right) \\
& G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[5]}\right) \\
& G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right) \\
& \text{StopPrime}(5)
\end{aligned}$$

$$NN(5489 = Level(5)_{No(1001)})$$

$$G\left(5489_{Fac(11, 499) SUM=510} = LV \frac{\{5\}}{[5]}\right)$$

$$G\left(510_{Fac(2, 3, 5, 17) SUM=27} = LV \frac{\{4\}}{[5]}\right)$$

$$G\left(27_{Fac(3, 3, 3) SUM=9} = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right)$$

*StopPrime(5)*

$$5495_{facsum=[[5], [7], [157]]} = [13]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5551_{facsum=[[7], [13], [61]]} = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5551_{facsum=[[7], [13], [61]]} = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$3 \text{ 子 } \left[ \begin{matrix} 5557 \\ P_1 \end{matrix}, \begin{matrix} [6], 5563 \\ P_2 \end{matrix}, \begin{matrix} [6], 5569 \\ P_3 \end{matrix} \right] = [KK([6]) = No(41)]$$

*NN(5570 = Level(3)\_{No(900)})*

$$G\left(5570_{Fac(2, 5, 557) SUM=564} = LV \frac{\{3\}}{[3]}\right)$$

$$G\left(564_{Fac(2, 2, 3, 47) SUM=54} = LV \frac{\{2\}}{[3]}\right)$$

$$G\left(54_{Fac(2, 3, 3, 3) SUM=11} = LV \frac{\{1\}}{[3]}\right)$$

*StopPrime(11)*

$$5571_{facsum=[[3], [3], [619]]} = [25]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5571_{facsum=[[3], [3], [619]]} = [5]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$5576_{facsum=[[2], [2], [2], [17], [41]]} = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5576_{facsum=[[2], [2], [2], [17], [41]]} = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$5576_{facsum=[[2], [2], [2], [17], [41]]} = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

*NN(5576 = Level(3)\_{No(901)})*

$$G\left(5576_{Fac(2, 2, 2, 17, 41) SUM=64} = LV \frac{\{3\}}{[3]}\right)$$

$$G\left(64_{Fac(2, 2, 2, 2, 2, 2) SUM=12} = LV \frac{\{2\}}{[3]}\right)$$

$$G\left(12_{Fac(2, 2, 3) SUM=7} = LV \frac{\{1\}}{[3]}\right)$$

*StopPrime(7)*

$$5600_{facsum=[[2], [2], [2], [2], [2], [5], [5], [7]]} = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$5626_{facsum=[[2], [29], [97]]} = [2]^7, \text{累乘}_{No(1)} = [E=1, H=7]$$

$$5628_{facsum=[[2], [2], [3], [7], [67]]} = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5628_{facsum=[[2], [2], [3], [7], [67]]} = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$5648_{facsum=[[2], [2], [2], [2], [353]]} = [19]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5650_{facsum=[[2], [5], [5], [113]]} = [5]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$5690_{facsum=[[2], [5], [569]]} = [24]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5700_{facsum=[[2], [2], [3], [5], [5], [19]]} = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(5716 = Level(1)_{No(800)})$$

$$G\left(5716_{Fac(2, 2, 1429) SUM=1433} = LV \frac{\{1\}}{[1]}\right)$$

*StopPrime(1433)*

$$NN(5725 = Level(1)_{No(801)})$$

$$G\left(5725_{Fac(5, 5, 229) SUM=239} = LV \frac{\{1\}}{[1]}\right)$$

*StopPrime(239)*

$$5755_{facsum=[[5], [1151]]} = [34]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5760_{facsum=[[2], [2], [2], [2], [2], [2], [2], [3], [3], [5]]} = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(5793 = Level(7)_{No(100)})$$

$$G\left(5793_{Fac(3, 1931) SUM=1934} = LV \frac{\{7\}}{[7]}\right)$$

$$G\left(1934_{Fac(2, 967) SUM=969} = LV \frac{\{6\}}{[7]}\right)$$

$$G\left(969_{Fac(3, 17, 19) SUM=39} = LV \frac{\{5\}}{[7]}\right)$$

$$G\left(39_{Fac(3, 13) SUM=16} = LV \frac{\{4\}}{[7]}\right)$$

$$G\left(16_{Fac(2, 2, 2) SUM=8} = LV \frac{\{3\}}{[7]}\right)$$

$$G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[7]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[7]}\right)$$

*StopPrime(5)*

$$5799_{fac sum = [[3], [1933]]} = [44]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3 \text{ 子 } \left[ \begin{matrix} 5801 \\ P_1 \end{matrix}, [6], \begin{matrix} 5807 \\ P_2 \end{matrix}, [6], \begin{matrix} 5813 \\ P_3 \end{matrix} \right] = [KK([6]) = No(42)]$$

$$5824_{fac sum = [[2], [2], [2], [2], [2], [2], [7], [13]]} = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$5825_{fac sum = [[5], [5], [233]]} = [3]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$NN(5826 = Level(7)_{No(101)})$$

$$G\left(5826_{Fac(2, 3, 971) SUM=976} = LV \frac{\{7\}}{[7]}\right)$$

$$G\left(976_{Fac(2, 2, 2, 2, 61) SUM=69} = LV \frac{\{6\}}{[7]}\right)$$

$$G\left(69_{Fac(3, 23) SUM=26} = LV \frac{\{5\}}{[7]}\right)$$

$$G\left(26_{Fac(2, 13) SUM=15} = LV \frac{\{4\}}{[7]}\right)$$

$$G\left(15_{Fac(3, 5) SUM=8} = LV \frac{\{3\}}{[7]}\right)$$

$$G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[7]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[7]}\right)$$

*StopPrime(5)*

$$5871_{fac sum = [[3], [19], [103]]} = [5]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$5880_{fac^2 sum = [[2]^2, [2]^2, [2]^2, [3]^2, [5]^2, [7]^2, [7]^2]} = [12]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$NN(5920 = Level(2)_{No(1000)})$$

$$G\left(5920_{Fac(2, 2, 2, 2, 2, 5, 37) SUM=52} = LV \frac{\{2\}}{[2]}\right)$$

$$G\left(52_{Fac(2, 2, 13) SUM=17} = LV \frac{\{1\}}{[2]}\right)$$

*StopPrime(17)*

$$5929_{fac sum = [[7], [7], [11], [11]]} = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(5930 = Level(2)_{No(1001)})$$

$$G\left(5930_{Fac(2, 5, 593)} SUM=600 = LV \frac{\{2\}}{[2]}\right)$$

$$G\left(600_{Fac(2, 2, 2, 3, 5, 5)} SUM=19 = LV \frac{\{1\}}{[2]}\right)$$

*StopPrime(19)*

*NN(5942 = Level(4)<sub>No(700)</sub>)*

$$G\left(5942_{Fac(2, 2971)} SUM=2973 = LV \frac{\{4\}}{[4]}\right)$$

$$G\left(2973_{Fac(3, 991)} SUM=994 = LV \frac{\{3\}}{[4]}\right)$$

$$G\left(994_{Fac(2, 7, 71)} SUM=80 = LV \frac{\{2\}}{[4]}\right)$$

$$G\left(80_{Fac(2, 2, 2, 2, 5)} SUM=13 = LV \frac{\{1\}}{[4]}\right)$$

*StopPrime(13)*

*NN(5948 = Level(4)<sub>No(701)</sub>)*

$$G\left(5948_{Fac(2, 2, 1487)} SUM=1491 = LV \frac{\{4\}}{[4]}\right)$$

$$G\left(1491_{Fac(3, 7, 71)} SUM=81 = LV \frac{\{3\}}{[4]}\right)$$

$$G\left(81_{Fac(3, 3, 3, 3)} SUM=12 = LV \frac{\{2\}}{[4]}\right)$$

$$G\left(12_{Fac(2, 2, 3)} SUM=7 = LV \frac{\{1\}}{[4]}\right)$$

*StopPrime(7)*

$$5950_{fac\ sum = [[2], [5], [5], [7], [17]]} = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$5995_{fac\ sum = [[5], [11], [109]]} = [5]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

*NN = {6000}、DONE*

$$6000_{fac^2\ sum = [[2]^2, [2]^2, [2]^2, [2]^2, [3]^2, [5]^2, [5]^2, [5]^2]} = [10]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

*NN(6000 = Level(5)<sub>No(1100)</sub>)*

$$G\left(6000_{Fac(2, 2, 2, 2, 3, 5, 5, 5)} SUM=26 = LV \frac{\{5\}}{[5]}\right)$$

$$G\left(26_{Fac(2, 13)} SUM=15 = LV \frac{\{4\}}{[5]}\right)$$

$$G\left(15_{Fac(3, 5)} SUM=8 = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right)$$

*StopPrime(5)*

$$6006_{facsum} = [[2], [3], [7], [11], [13]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

*NN(6014 = Level(5)\_{No(1101)})*

$$G\left(6014_{Fac(2, 31, 97) SUM=130} = LV \frac{\{5\}}{[5]}\right)$$

$$G\left(130_{Fac(2, 5, 13) SUM=20} = LV \frac{\{4\}}{[5]}\right)$$

$$G\left(20_{Fac(2, 2, 5) SUM=9} = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right)$$

*StopPrime(5)*

$$6018_{facsum} = [[2], [3], [17], [59]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6018_{facsum} = [[2], [3], [17], [59]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$6046_{facsum} = [[2], [3023]] = [55]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6075_{facsum} = [[3], [3], [3], [3], [3], [5], [5]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6076_{facsum} = [[2], [2], [7], [7], [31]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6080_{facsum} = [[2], [2], [2], [2], [2], [2], [5], [19]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6084_{facsum} = [[2], [2], [3], [3], [13], [13]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6095_{facsum} = [[5], [23], [53]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6095_{facsum} = [[5], [23], [53]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$6114_{facsum} = [[2], [3], [1019]] = [32]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6114_{facsum} = [[2], [3], [1019]] = [4]^5, \text{累乘}_{No(2)} = [E=1, H=5]$$

$$6114_{facsum} = [[2], [3], [1019]] = [2]^{10}, \text{累乘}_{No(3)} = [E=1, H=10]$$

$$6144_{facsum} = [[2], [2], [2], [2], [2], [2], [2], [2], [2], [2], [2], [3]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

*NN(6166 = Level(3)\_{No(1000)})*

$$G\left(6166_{Fac(2, 3083) SUM=3085} = LV \frac{\{3\}}{[3]}\right)$$

$$G\left(3085_{Fac(5, 617) SUM=622} = LV \frac{\{2\}}{[3]}\right)$$

$$G\left(622_{Fac(2, 311) SUM=313} = LV \frac{\{1\}}{[3]}\right)$$

*StopPrime(313)*

$$NN(6168 = Level(3)_{No(1001)})$$

$$G\left(6168_{Fac(2, 2, 2, 3, 257) SUM=266} = LV \frac{\{3\}}{[3]}\right)$$

$$G\left(266_{Fac(2, 7, 19) SUM=28} = LV \frac{\{2\}}{[3]}\right)$$

$$G\left(28_{Fac(2, 2, 7) SUM=11} = LV \frac{\{1\}}{[3]}\right)$$

*StopPrime(11)*

$$6174_{fac^2 sum} = [[2]^2, [3]^2, [3]^2, [7]^2, [7]^2, [7]^2] = [13]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$6250_{fac sum} = [[2], [5], [5], [5], [5], [5]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$6266_{fac sum} = [[2], [13], [241]] = [16]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6266_{fac sum} = [[2], [13], [241]] = [4]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$6266_{fac sum} = [[2], [13], [241]] = [2]^8, \text{累乘}_{No(3)} = [E=1, H=8]$$

$$6273_{fac sum} = [[3], [3], [17], [41]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6273_{fac sum} = [[3], [3], [17], [41]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$6273_{fac sum} = [[3], [3], [17], [41]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$6300_{fac sum} = [[2], [2], [3], [3], [5], [5], [7]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$6300_{fac^2 sum} = [[2]^2, [2]^2, [3]^2, [3]^2, [5]^2, [5]^2, [7]^2] = [5]^3, \text{累乘}_{No(2)} = [E=2, H=3]$$

$$6339_{fac sum} = [[3], [2113]] = [46]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3 \text{ つ子2連} \left[ \begin{matrix} 6361_{P_1}, [6], 6367_{P_2}, [6], 6373_{P_3} \end{matrix} \right] = [KK([6]) = No(46), 2 Ren]$$

$$3 \text{ つ子2連} \left[ \begin{matrix} 6367_{P_1}, [6], 6373_{P_2}, [6], 6379_{P_3} \end{matrix} \right] = [KK([6]) = No(46), 2 Ren]$$

$$6354_{fac sum} = [[2], [3], [3], [353]] = [19]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6380_{fac sum} = [[2], [2], [5], [11], [29]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(6395 = Level(6)_{No(500)})$$



$$\begin{aligned}
& G\left(6395_{Fac(5, 1279) SUM=1284} = LV \frac{\{6\}}{[6]}\right) \\
& G\left(1284_{Fac(2, 2, 3, 107) SUM=114} = LV \frac{\{5\}}{[6]}\right) \\
& G\left(114_{Fac(2, 3, 19) SUM=24} = LV \frac{\{4\}}{[6]}\right) \\
& G\left(24_{Fac(2, 2, 2, 3) SUM=9} = LV \frac{\{3\}}{[6]}\right) \\
& G\left(9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[6]}\right) \\
& G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[6]}\right) \\
& \text{StopPrime}(5)
\end{aligned}$$

$$\begin{aligned}
& NN(6406 = Level(6)_{No(501)}) \\
& G\left(6406_{Fac(2, 3203) SUM=3205} = LV \frac{\{6\}}{[6]}\right) \\
& G\left(3205_{Fac(5, 641) SUM=646} = LV \frac{\{5\}}{[6]}\right) \\
& G\left(646_{Fac(2, 17, 19) SUM=38} = LV \frac{\{4\}}{[6]}\right) \\
& G\left(38_{Fac(2, 19) SUM=21} = LV \frac{\{3\}}{[6]}\right) \\
& G\left(21_{Fac(3, 7) SUM=10} = LV \frac{\{2\}}{[6]}\right) \\
& G\left(10_{Fac(2, 5) SUM=7} = LV \frac{\{1\}}{[6]}\right) \\
& \text{StopPrime}(7)
\end{aligned}$$

$$\begin{aligned}
& NN(6438 = Level(1)_{No(900)}) \\
& G\left(6438_{Fac(2, 3, 29, 37) SUM=71} = LV \frac{\{1\}}{[1]}\right) \\
& \text{StopPrime}(71)
\end{aligned}$$

$$\begin{aligned}
& NN(6440 = Level(1)_{No(901)}) \\
& G\left(6440_{Fac(2, 2, 2, 5, 7, 23) SUM=41} = LV \frac{\{1\}}{[1]}\right) \\
& \text{StopPrime}(41)
\end{aligned}$$

$$6455_{facsum} = [[5], [1291]] = [36]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6455_{facsum} = [[5], [1291]] = [6]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$6468_{fac\ sum} = [[2], [2], [3], [7], [7], [11]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$6480_{fac\ sum} = [[2], [2], [2], [2], [3], [3], [3], [3], [5]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6480_{fac^5\ sum} = [[2]^5, [2]^5, [2]^5, [2]^5, [3]^5, [3]^5, [3]^5, [3]^5, [5]^5] = [65]^2, \text{累乘}_{No(2)} = [E=5, H=2]$$

$$6487_{fac\ sum} = [[13], [499]] = [8]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$6487_{fac\ sum} = [[13], [499]] = [2]^9, \text{累乘}_{No(2)} = [E=1, H=9]$$

$$6495_{fac\ sum} = [[3], [5], [433]] = [21]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6500_{fac\ sum} = [[2], [2], [5], [5], [5], [13]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$6511_{fac\ sum} = [[17], [383]] = [20]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(6534 = Level(5)_{No(1200)})$$

$$G\left(6534_{Fac(2, 3, 3, 3, 11, 11)}\ SUM=33 = LV \frac{\{5\}}{[5]}\right)$$

$$G\left(33_{Fac(3, 11)}\ SUM=14 = LV \frac{\{4\}}{[5]}\right)$$

$$G\left(14_{Fac(2, 7)}\ SUM=9 = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(9_{Fac(3, 3)}\ SUM=6 = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(6_{Fac(2, 3)}\ SUM=5 = LV \frac{\{1\}}{[5]}\right)$$

StopPrime(5)

$$6540_{fac\ sum} = [[2], [2], [3], [5], [109]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(6541 = Level(5)_{No(1201)})$$

$$G\left(6541_{Fac(31, 211)}\ SUM=242 = LV \frac{\{5\}}{[5]}\right)$$

$$G\left(242_{Fac(2, 11, 11)}\ SUM=24 = LV \frac{\{4\}}{[5]}\right)$$

$$G\left(24_{Fac(2, 2, 2, 3)}\ SUM=9 = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(9_{Fac(3, 3)}\ SUM=6 = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(6_{Fac(2, 3)}\ SUM=5 = LV \frac{\{1\}}{[5]}\right)$$

StopPrime(5)

$$6545_{fac^2\ sum} = [[5]^2, [7]^2, [11]^2, [17]^2] = [22]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$6552_{fac\ sum} = [[2], [2], [2], [3], [3], [7], [13]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$6554_{fac\ sum} = [[2], [29], [113]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6561_{fac^3\ sum} = [[3]^3, [3]^3, [3]^3, [3]^3, [3]^3, [3]^3, [3]^3, [3]^3, [3]^3] = [6]^3, \text{累乘}_{No(1)} = [E=3, H=3]$$

$$6561_{fac^6\ sum} = [[3]^6, [3]^6, [3]^6, [3]^6, [3]^6, [3]^6, [3]^6, [3]^6, [3]^6] = [18]^3, \text{累乘}_{No(2)} = [E=6, H=3]$$

$$6561_{fac^9\ sum} = [[3]^9, [3]^9, [3]^9, [3]^9, [3]^9, [3]^9, [3]^9, [3]^9, [3]^9] = [54]^3, \text{累乘}_{No(3)} = [E=9, H=3]$$

$$\begin{aligned} & NN(6572 = Level(2)_{No(1100)}) \\ & G\left(6572_{Fac(2, 2, 31, 53)}\ SUM=88 = LV \frac{\{2\}}{[2]}\right) \\ & G\left(88_{Fac(2, 2, 2, 11)}\ SUM=17 = LV \frac{\{1\}}{[2]}\right) \\ & StopPrime(17) \end{aligned}$$

$$\begin{aligned} & NN(6575 = Level(2)_{No(1101)}) \\ & G\left(6575_{Fac(5, 5, 263)}\ SUM=273 = LV \frac{\{2\}}{[2]}\right) \\ & G\left(273_{Fac(3, 7, 13)}\ SUM=23 = LV \frac{\{1\}}{[2]}\right) \\ & StopPrime(23) \end{aligned}$$

$$6578_{fac\ sum} = [[2], [11], [13], [23]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6583_{fac\ sum} = [[29], [227]] = [16]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6583_{fac\ sum} = [[29], [227]] = [4]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$6583_{fac\ sum} = [[29], [227]] = [2]^8, \text{累乘}_{No(3)} = [E=1, H=8]$$

$$6586_{fac\ sum} = [[2], [37], [89]] = [2]^7, \text{累乘}_{No(1)} = [E=1, H=7]$$

$$6594_{fac\ sum} = [[2], [3], [7], [157]] = [13]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6604_{fac\ sum} = [[2], [2], [13], [127]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6623_{fac\ sum} = [[37], [179]] = [6]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$6695_{fac\ sum} = [[5], [13], [103]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6696_{fac^2\ sum} = [[2]^2, [2]^2, [2]^2, [3]^2, [3]^2, [3]^2, [31]^2] = [10]^3, \text{累乘}_{No(1)} = [E=2, H=3]$$

$$6698_{fac\ sum} = [[2], [17], [197]] = [6]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$6700_{fac\ sum} = [[2], [2], [5], [5], [67]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6700_{fac\ sum} = [[2], [2], [5], [5], [67]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$6716_{fac\ sum} = [[2], [2], [23], [73]] = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6720_{fac\ sum} = [[2], [2], [2], [2], [2], [2], [3], [5], [7]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$6728_{fac\ sum} = [[2], [2], [2], [29], [29]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6728_{facsum} = [[2], [2], [2], [29], [29]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$6728_{facsum} = [[2], [2], [2], [29], [29]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$6746_{facsum} = [[2], [3373]] = [15]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$\begin{aligned} & NN(6774 = Level(4)_{No(800)}) \\ & G\left(6774_{Fac(2, 3, 1129)} SUM=1134 = LV \frac{\{4\}}{[4]}\right) \\ & G\left(1134_{Fac(2, 3, 3, 3, 3, 7)} SUM=21 = LV \frac{\{3\}}{[4]}\right) \\ & G\left(21_{Fac(3, 7)} SUM=10 = LV \frac{\{2\}}{[4]}\right) \\ & G\left(10_{Fac(2, 5)} SUM=7 = LV \frac{\{1\}}{[4]}\right) \\ & StopPrime(7) \end{aligned}$$

$$6780_{facsum} = [[2], [2], [3], [5], [113]] = [5]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$\begin{aligned} & NN(6783 = Level(4)_{No(801)}) \\ & G\left(6783_{Fac(3, 7, 17, 19)} SUM=46 = LV \frac{\{4\}}{[4]}\right) \\ & G\left(46_{Fac(2, 23)} SUM=25 = LV \frac{\{3\}}{[4]}\right) \\ & G\left(25_{Fac(5, 5)} SUM=10 = LV \frac{\{2\}}{[4]}\right) \\ & G\left(10_{Fac(2, 5)} SUM=7 = LV \frac{\{1\}}{[4]}\right) \\ & StopPrime(7) \end{aligned}$$

$$6815_{facsum} = [[5], [29], [47]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6815_{facsum} = [[5], [29], [47]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$6828_{facsum} = [[2], [2], [3], [569]] = [24]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3 \text{ つ子2連} \left[ \begin{matrix} 6857_{P_1}, [6], 6863_{P_2}, [6], 6869_{P_3} \end{matrix} \right] = [KK([6]) = No(48), 2 Ren]$$

$$6840_{facsum} = [[2], [2], [2], [3], [3], [5], [19]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6842_{facsum} = [[2], [11], [311]] = [18]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$\begin{aligned} & NN(6867 = Level(3)_{No(1100)}) \\ & G\left(6867_{Fac(3, 3, 7, 109)} SUM=122 = LV \frac{\{3\}}{[3]}\right) \end{aligned}$$

$$G\left(122_{Fac(2, 61) SUM=63} = LV \frac{\{2\}}{[3]}\right)$$

$$G\left(63_{Fac(3, 3, 7) SUM=13} = LV \frac{\{1\}}{[3]}\right)$$

*StopPrime(13)*

$$NN(6868 = Level(3)_{No(1101)})$$

$$G\left(6868_{Fac(2, 2, 17, 101) SUM=122} = LV \frac{\{3\}}{[3]}\right)$$

$$G\left(122_{Fac(2, 61) SUM=63} = LV \frac{\{2\}}{[3]}\right)$$

$$G\left(63_{Fac(3, 3, 7) SUM=13} = LV \frac{\{1\}}{[3]}\right)$$

*StopPrime(13)*

$$6906_{facsum} = [[2], [3], [1151]] = [34]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6909_{facsum} = [[3], [7], [7], [47]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6909_{facsum} = [[3], [7], [7], [47]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$6909_{facsum} = [[3], [7], [7], [47]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$6912_{facsum} = [[2], [2], [2], [2], [2], [2], [2], [2], [2], [3], [3], [3]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6928_{facsum} = [[2], [2], [2], [2], [433]] = [21]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6955_{facsum} = [[5], [13], [107]] = [5]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$6963_{facsum} = [[3], [11], [211]] = [15]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3 \text{ 子 } \left[ \begin{matrix} 6971 \\ P_1 \end{matrix}, \begin{matrix} 6977 \\ P_2 \end{matrix}, \begin{matrix} 6983 \\ P_3 \end{matrix} \right] = [KK([6]) = No(50)]$$

$$6976_{facsum} = [[2], [2], [2], [2], [2], [2], [109]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$6990_{facsum} = [[2], [3], [5], [233]] = [3]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

*NN = {7000}、DONE*

$$7003_{facsum} = [[47], [149]] = [14]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(7034 = Level(5)_{No(1300)})$$

$$G\left(7034_{Fac(2, 3517) SUM=3519} = LV \frac{\{5\}}{[5]}\right)$$

$$G\left(3519_{Fac(3, 3, 17, 23) SUM=46} = LV \frac{\{4\}}{[5]}\right)$$

$$G\left(46_{Fac(2, 23) SUM=25} = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(25_{Fac(5, 5) SUM=10} = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(10_{Fac(2, 5) SUM=7} = LV \frac{\{1\}}{[5]}\right)$$

*StopPrime(7)*

$$7042_{fac sum = [[2], [7], [503]]} = [8]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$7042_{fac sum = [[2], [7], [503]]} = [2]^9, \text{累乘}_{No(2)} = [E=1, H=9]$$

$$NN(7042 = Level(5)_{No(1301)})$$

$$G\left(7042_{Fac(2, 7, 503) SUM=512} = LV \frac{\{5\}}{[5]}\right)$$

$$G\left(512_{Fac(2, 2, 2, 2, 2, 2, 2, 2) SUM=18} = LV \frac{\{4\}}{[5]}\right)$$

$$G\left(18_{Fac(2, 3, 3) SUM=8} = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right)$$

*StopPrime(5)*

$$7098_{fac^2 sum = [[2]^2, [3]^2, [7]^2, [13]^2, [13]^2]} = [20]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$7106_{fac sum = [[2], [11], [17], [19]]} = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$7128_{fac^2 sum = [[2]^2, [2]^2, [2]^2, [3]^2, [3]^2, [3]^2, [3]^2, [11]^2]} = [13]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$NN(7132 = Level(1)_{No(1000)})$$

$$G\left(7132_{Fac(2, 2, 1783) SUM=1787} = LV \frac{\{1\}}{[1]}\right)$$

*StopPrime(1787)*

$$NN(7136 = Level(1)_{No(1001)})$$

$$G\left(7136_{Fac(2, 2, 2, 2, 2, 2, 223) SUM=233} = LV \frac{\{1\}}{[1]}\right)$$

*StopPrime(233)*

$$7138_{fac sum = [[2], [43], [83]]} = [2]^7, \text{累乘}_{No(1)} = [E=1, H=7]$$

$$7139_{fac sum = [[11], [11], [59]]} = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$7139_{fac sum = [[11], [11], [59]]} = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$7140_{fac\ sum} = [[2], [2], [3], [5], [7], [17]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$7150_{fac\ sum} = [[2], [5], [5], [11], [13]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$7168_{fac\ sum} = [[2], [2], [2], [2], [2], [2], [2], [2], [2], [2], [7]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$7182_{fac^2\ sum} = [[2]^2, [3]^2, [3]^2, [3]^2, [7]^2, [19]^2] = [21]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$NN(7183 = Level(2)_{No(1200)})$$

$$G\left(7183_{Fac(11, 653)}\ SUM=664 = LV \frac{\{2\}}{[2]}\right)$$

$$G\left(664_{Fac(2, 2, 2, 83)}\ SUM=89 = LV \frac{\{1\}}{[2]}\right)$$

StopPrime(89)

$$NN(7189 = Level(2)_{No(1201)})$$

$$G\left(7189_{Fac(7, 13, 79)}\ SUM=99 = LV \frac{\{2\}}{[2]}\right)$$

$$G\left(99_{Fac(3, 3, 11)}\ SUM=17 = LV \frac{\{1\}}{[2]}\right)$$

StopPrime(17)

$$7194_{fac\ sum} = [[2], [3], [11], [109]] = [5]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$7195_{fac\ sum} = [[5], [1439]] = [38]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$7232_{fac\ sum} = [[2], [2], [2], [2], [2], [2], [113]] = [5]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$7267_{fac^2\ sum} = [[13]^2, [13]^2, [43]^2] = [3]^7, \text{累乘}_{No(1)} = [E=2, H=7]$$

$$7276_{fac\ sum} = [[2], [2], [17], [107]] = [2]^7, \text{累乘}_{No(1)} = [E=1, H=7]$$

$$7290_{fac\ sum} = [[2], [3], [3], [3], [3], [3], [3], [5]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$7296_{fac\ sum} = [[2], [2], [2], [2], [2], [2], [2], [3], [19]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$7304_{fac\ sum} = [[2], [2], [2], [11], [83]] = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$7314_{fac\ sum} = [[2], [3], [23], [53]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$7314_{fac\ sum} = [[2], [3], [23], [53]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$7319_{fac\ sum} = [[13], [563]] = [24]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$7336_{fac\ sum} = [[2], [2], [2], [7], [131]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$7371_{fac\ sum} = [[3], [3], [3], [3], [7], [13]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$NN(7401 = Level(6)_{No(600)})$$

$$G\left(7401_{Fac(3, 2467)}\ SUM=2470 = LV \frac{\{6\}}{[6]}\right)$$

$$\begin{aligned}
& G\left(2470_{Fac(2, 5, 13, 19) SUM=39} = LV \frac{\{5\}}{[6]}\right) \\
& G\left(39_{Fac(3, 13) SUM=16} = LV \frac{\{4\}}{[6]}\right) \\
& G\left(16_{Fac(2, 2, 2, 2) SUM=8} = LV \frac{\{3\}}{[6]}\right) \\
& G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[6]}\right) \\
& G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[6]}\right) \\
& \text{StopPrime}(5)
\end{aligned}$$

$$\begin{aligned}
& NN(7408 = Level(6)_{No(601)}) \\
& G\left(7408_{Fac(2, 2, 2, 2, 463) SUM=471} = LV \frac{\{6\}}{[6]}\right) \\
& G\left(471_{Fac(3, 157) SUM=160} = LV \frac{\{5\}}{[6]}\right) \\
& G\left(160_{Fac(2, 2, 2, 2, 2, 5) SUM=15} = LV \frac{\{4\}}{[6]}\right) \\
& G\left(15_{Fac(3, 5) SUM=8} = LV \frac{\{3\}}{[6]}\right) \\
& G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[6]}\right) \\
& G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[6]}\right) \\
& \text{StopPrime}(5)
\end{aligned}$$

$$\begin{aligned}
7410_{fac^3 sum} &= [[2]^3, [3]^3, [5]^3, [13]^3, [19]^3] = [96]^2, \text{累乘}_{No(1)} = [E=3, H=2] \\
7426_{fac sum} &= [[2], [47], [79]] = [2]^7, \text{累乘}_{No(1)} = [E=1, H=7] \\
7438_{fac sum} &= [[2], [3719]] = [61]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
7439_{fac sum} &= [[43], [173]] = [6]^3, \text{累乘}_{No(1)} = [E=1, H=3] \\
7448_{fac^3 sum} &= [[2]^3, [2]^3, [2]^3, [7]^3, [7]^3, [19]^3] = [87]^2, \text{累乘}_{No(1)} = [E=3, H=2] \\
7456_{fac sum} &= [[2], [2], [2], [2], [2], [233]] = [3]^5, \text{累乘}_{No(1)} = [E=1, H=5] \\
7490_{fac sum} &= [[2], [5], [7], [107]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
7500_{fac sum} &= [[2], [2], [3], [5], [5], [5], [5]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3] \\
7514_{fac sum} &= [[2], [13], [17], [17]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]
\end{aligned}$$

$$3 \curvearrowright \left[ \begin{matrix} 7517 \\ P_1 \end{matrix}, [6], \begin{matrix} 7523 \\ P_2 \end{matrix}, [6], \begin{matrix} 7529 \\ P_3 \end{matrix} \right] = [KK([6]) = No(51)]$$



$$7557_{facsum} = [[3], [11], [229]] = [3]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$7560_{facsum} = [[2], [2], [2], [3], [3], [3], [5], [7]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$7569_{facsum} = [[3], [3], [29], [29]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$7569_{facsum} = [[3], [3], [29], [29]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$7569_{facsum} = [[3], [3], [29], [29]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$3 \text{ 子 } \left[ \begin{matrix} 7577_P \\ 1 \end{matrix}, \begin{matrix} 6, 7583_P \\ 2 \end{matrix}, \begin{matrix} 6, 7589_P \\ 3 \end{matrix} \right] = [KK([6]) = No(52)]$$

$$NN(7578 = Level(5)_{No(1400)})$$

$$G\left( \begin{matrix} 7578_{Fac(2, 3, 3, 421)} \\ SUM=429 = LV \frac{\{5\}}{[5]} \end{matrix} \right)$$

$$G\left( \begin{matrix} 429_{Fac(3, 11, 13)} \\ SUM=27 = LV \frac{\{4\}}{[5]} \end{matrix} \right)$$

$$G\left( \begin{matrix} 27_{Fac(3, 3, 3)} \\ SUM=9 = LV \frac{\{3\}}{[5]} \end{matrix} \right)$$

$$G\left( \begin{matrix} 9_{Fac(3, 3)} \\ SUM=6 = LV \frac{\{2\}}{[5]} \end{matrix} \right)$$

$$G\left( \begin{matrix} 6_{Fac(2, 3)} \\ SUM=5 = LV \frac{\{1\}}{[5]} \end{matrix} \right)$$

StopPrime(5)

$$NN(7579 = Level(5)_{No(1401)})$$

$$G\left( \begin{matrix} 7579_{Fac(11, 13, 53)} \\ SUM=77 = LV \frac{\{5\}}{[5]} \end{matrix} \right)$$

$$G\left( \begin{matrix} 77_{Fac(7, 11)} \\ SUM=18 = LV \frac{\{4\}}{[5]} \end{matrix} \right)$$

$$G\left( \begin{matrix} 18_{Fac(2, 3, 3)} \\ SUM=8 = LV \frac{\{3\}}{[5]} \end{matrix} \right)$$

$$G\left( \begin{matrix} 8_{Fac(2, 2, 2)} \\ SUM=6 = LV \frac{\{2\}}{[5]} \end{matrix} \right)$$

$$G\left( \begin{matrix} 6_{Fac(2, 3)} \\ SUM=5 = LV \frac{\{1\}}{[5]} \end{matrix} \right)$$

StopPrime(5)

$$7599_{facsum} = [[3], [17], [149]] = [13]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(7608 = Level(3)_{No(1200)})$$

$$G\left( \begin{matrix} 7608_{Fac(2, 2, 2, 3, 317)} \\ SUM=326 = LV \frac{\{3\}}{[3]} \end{matrix} \right)$$

$$G\left(326_{Fac(2, 163) SUM=165} = LV \frac{\{2\}}{[3]}\right)$$

$$G\left(165_{Fac(3, 5, 11) SUM=19} = LV \frac{\{1\}}{[3]}\right)$$

*StopPrime(19)*

$$NN(7609 = Level(3)_{No(1201)})$$

$$G\left(7609_{Fac(7, 1087) SUM=1094} = LV \frac{\{3\}}{[3]}\right)$$

$$G\left(1094_{Fac(2, 547) SUM=549} = LV \frac{\{2\}}{[3]}\right)$$

$$G\left(549_{Fac(3, 3, 61) SUM=67} = LV \frac{\{1\}}{[3]}\right)$$

*StopPrime(67)*

$$7616_{fac\ sum = [[2], [2], [2], [2], [2], [2], [7], [17]]} = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$7650_{fac^2\ sum = [[2]^2, [3]^2, [3]^2, [5]^2, [5]^2, [17]^2]} = [19]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$7656_{fac\ sum = [[2], [2], [2], [3], [11], [29]]} = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(7688 = Level(4)_{No(900)})$$

$$G\left(7688_{Fac(2, 2, 2, 31, 31) SUM=68} = LV \frac{\{4\}}{[4]}\right)$$

$$G\left(68_{Fac(2, 2, 17) SUM=21} = LV \frac{\{3\}}{[4]}\right)$$

$$G\left(21_{Fac(3, 7) SUM=10} = LV \frac{\{2\}}{[4]}\right)$$

$$G\left(10_{Fac(2, 5) SUM=7} = LV \frac{\{1\}}{[4]}\right)$$

*StopPrime(7)*

$$NN(7689 = Level(4)_{No(901)})$$

$$G\left(7689_{Fac(3, 11, 233) SUM=247} = LV \frac{\{4\}}{[4]}\right)$$

$$G\left(247_{Fac(13, 19) SUM=32} = LV \frac{\{3\}}{[4]}\right)$$

$$G\left(32_{Fac(2, 2, 2, 2) SUM=10} = LV \frac{\{2\}}{[4]}\right)$$

$$G\left(10_{Fac(2, 5) SUM=7} = LV \frac{\{1\}}{[4]}\right)$$

*StopPrime(7)*

$$\begin{aligned}
7695_{fac\ sum} &= [[3], [3], [3], [3], [5], [19]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
7700_{fac\ sum} &= [[2], [2], [5], [5], [7], [11]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5] \\
7738_{fac\ sum} &= [[2], [53], [73]] = [2]^7, \text{累乘}_{No(1)} = [E=1, H=7] \\
7743_{fac\ sum} &= [[3], [29], [89]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
7746_{fac\ sum} &= [[2], [3], [1291]] = [36]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
7746_{fac\ sum} &= [[2], [3], [1291]] = [6]^4, \text{累乘}_{No(2)} = [E=1, H=4] \\
7772_{fac\ sum} &= [[2], [2], [29], [67]] = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
7776_{fac\ sum} &= [[2], [2], [2], [2], [2], [3], [3], [3], [3], [3]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2]
\end{aligned}$$

$$\begin{aligned}
& NN(7782 = Level(2)_{No(1300)}) \\
& G\left(7782_{Fac(2, 3, 1297) \ SUM=1302} = LV \frac{\{2\}}{[2]}\right) \\
& G\left(1302_{Fac(2, 3, 7, 31) \ SUM=43} = LV \frac{\{1\}}{[2]}\right) \\
& \text{StopPrime}(43)
\end{aligned}$$

$$\begin{aligned}
& NN(7783 = Level(2)_{No(1301)}) \\
& G\left(7783_{Fac(43, 181) \ SUM=224} = LV \frac{\{2\}}{[2]}\right) \\
& G\left(224_{Fac(2, 2, 2, 2, 2, 7) \ SUM=17} = LV \frac{\{1\}}{[2]}\right) \\
& \text{StopPrime}(17)
\end{aligned}$$

$$\begin{aligned}
7791_{fac^2\ sum} &= [[3]^2, [7]^2, [7]^2, [53]^2] = [54]^2, \text{累乘}_{No(1)} = [E=2, H=2] \\
7794_{fac\ sum} &= [[2], [3], [3], [433]] = [21]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
7800_{fac\ sum} &= [[2], [2], [2], [3], [5], [5], [13]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5] \\
7815_{fac\ sum} &= [[3], [5], [521]] = [23]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
7820_{fac\ sum} &= [[2], [2], [5], [17], [23]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
7848_{fac\ sum} &= [[2], [2], [2], [3], [3], [109]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
7850_{fac\ sum} &= [[2], [5], [5], [157]] = [13]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
7889_{fac^2\ sum} &= [[7]^2, [7]^2, [7]^2, [23]^2] = [26]^2, \text{累乘}_{No(1)} = [E=2, H=2] \\
7906_{fac\ sum} &= [[2], [59], [67]] = [2]^7, \text{累乘}_{No(1)} = [E=1, H=7] \\
7930_{fac\ sum} &= [[2], [5], [13], [61]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
7930_{fac\ sum} &= [[2], [5], [13], [61]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4] \\
7931_{fac\ sum} &= [[7], [11], [103]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2]
\end{aligned}$$

$$7934_{fac\ sum} = [[2], [3967]] = [63]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$7939_{fac\ sum} = [[17], [467]] = [22]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$7956_{fac^2\ sum} = [[2]^2, [2]^2, [3]^2, [3]^2, [13]^2, [17]^2] = [22]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$7964_{fac\ sum} = [[2], [2], [11], [181]] = [14]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(7990 = Level(1)_{No(1100)}) \\ G\left(7990_{Fac(2, 5, 17, 47) SUM=71} = LV \frac{\{1\}}{[1]}\right) \\ StopPrime(71)$$

$$NN(7996 = Level(1)_{No(1101)}) \\ G\left(7996_{Fac(2, 2, 1999) SUM=2003} = LV \frac{\{1\}}{[1]}\right) \\ StopPrime(2003)$$

$$NN = \{8000\}、DONE$$

$$8000_{fac\ sum} = [[2], [2], [2], [2], [2], [2], [5], [5], [5]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$8034_{fac\ sum} = [[2], [3], [13], [103]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$8040_{fac\ sum} = [[2], [2], [2], [3], [5], [67]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$8040_{fac\ sum} = [[2], [2], [2], [3], [5], [67]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$8064_{fac\ sum} = [[2], [2], [2], [2], [2], [2], [2], [2], [3], [3], [7]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$8083_{fac\ sum} = [[59], [137]] = [14]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(8125 = Level(5)_{No(1500)}) \\ G\left(8125_{Fac(5, 5, 5, 5, 13) SUM=33} = LV \frac{\{5\}}{[5]}\right) \\ G\left(33_{Fac(3, 11) SUM=14} = LV \frac{\{4\}}{[5]}\right) \\ G\left(14_{Fac(2, 7) SUM=9} = LV \frac{\{3\}}{[5]}\right) \\ G\left(9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[5]}\right) \\ G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right) \\ StopPrime(5)$$

$$NN(8129 = Level(5)_{No(1501)})$$

$$\begin{aligned}
& G\left(8129_{Fac(11, 739) SUM=750} = LV \frac{\{5\}}{[5]}\right) \\
& G\left(750_{Fac(2, 3, 5, 5, 5) SUM=20} = LV \frac{\{4\}}{[5]}\right) \\
& G\left(20_{Fac(2, 2, 5) SUM=9} = LV \frac{\{3\}}{[5]}\right) \\
& G\left(9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[5]}\right) \\
& G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right) \\
& \text{StopPrime}(5)
\end{aligned}$$

$$8136_{facsum = [[2], [2], [2], [3], [3], [113]]} = [5]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$8160_{fac^2sum = [[2]^2, [2]^2, [2]^2, [2]^2, [2]^2, [3]^2, [5]^2, [17]^2]} = [7]^3, \text{累乘}_{No(1)} = [E=2, H=3]$$

$$8178_{facsum = [[2], [3], [29], [47]]} = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$8178_{facsum = [[2], [3], [29], [47]]} = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$\begin{aligned}
& NN(8205 = Level(3)_{No(1300)}) \\
& G\left(8205_{Fac(3, 5, 547) SUM=555} = LV \frac{\{3\}}{[3]}\right) \\
& G\left(555_{Fac(3, 5, 37) SUM=45} = LV \frac{\{2\}}{[3]}\right) \\
& G\left(45_{Fac(3, 3, 5) SUM=11} = LV \frac{\{1\}}{[3]}\right) \\
& \text{StopPrime}(11)
\end{aligned}$$

$$\begin{aligned}
& NN(8207 = Level(3)_{No(1301)}) \\
& G\left(8207_{Fac(29, 283) SUM=312} = LV \frac{\{3\}}{[3]}\right) \\
& G\left(312_{Fac(2, 2, 2, 3, 13) SUM=22} = LV \frac{\{2\}}{[3]}\right) \\
& G\left(22_{Fac(2, 11) SUM=13} = LV \frac{\{1\}}{[3]}\right) \\
& \text{StopPrime}(13)
\end{aligned}$$

$$8208_{facsum = [[2], [2], [2], [2], [3], [3], [3], [19]]} = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$8217_{facsum = [[3], [3], [11], [83]]} = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$8223_{facsum = [[3], [2741]]} = [14]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$8225_{facsum = [[5], [5], [7], [47]]} = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$8225_{facsum = [[5], [5], [7], [47]]} = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$8225_{facsum} = [[5], [5], [7], [47]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$8239_{facsum} = [[7], [11], [107]] = [5]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$\begin{aligned}
 & NN(8248 = Level(6)_{No(700)}) \\
 & G\left(8248_{Fac(2, 2, 2, 1031)} SUM=1037 = LV \frac{\{6\}}{[6]}\right) \\
 & G\left(1037_{Fac(17, 61)} SUM=78 = LV \frac{\{5\}}{[6]}\right) \\
 & G\left(78_{Fac(2, 3, 13)} SUM=18 = LV \frac{\{4\}}{[6]}\right) \\
 & G\left(18_{Fac(2, 3, 3)} SUM=8 = LV \frac{\{3\}}{[6]}\right) \\
 & G\left(8_{Fac(2, 2, 2)} SUM=6 = LV \frac{\{2\}}{[6]}\right) \\
 & G\left(6_{Fac(2, 3)} SUM=5 = LV \frac{\{1\}}{[6]}\right) \\
 & StopPrime(5)
 \end{aligned}$$

$$8253_{facsum} = [[3], [3], [7], [131]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$\begin{aligned}
 & NN(8259 = Level(6)_{No(701)}) \\
 & G\left(8259_{Fac(3, 2753)} SUM=2756 = LV \frac{\{6\}}{[6]}\right) \\
 & G\left(2756_{Fac(2, 2, 13, 53)} SUM=70 = LV \frac{\{5\}}{[6]}\right) \\
 & G\left(70_{Fac(2, 5, 7)} SUM=14 = LV \frac{\{4\}}{[6]}\right) \\
 & G\left(14_{Fac(2, 7)} SUM=9 = LV \frac{\{3\}}{[6]}\right) \\
 & G\left(9_{Fac(3, 3)} SUM=6 = LV \frac{\{2\}}{[6]}\right) \\
 & G\left(6_{Fac(2, 3)} SUM=5 = LV \frac{\{1\}}{[6]}\right) \\
 & StopPrime(5)
 \end{aligned}$$

$$8282_{facsum} = [[2], [41], [101]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$8320_{facsum} = [[2], [2], [2], [2], [2], [2], [2], [2], [5], [13]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$8336_{facsum} = [[2], [2], [2], [2], [521]] = [23]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$8346_{facsum} = [[2], [3], [13], [107]] = [5]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$NN(8375 = Level(2)_{No(1400)})$$

$$G\left(8375_{Fac(5, 5, 5, 67)} SUM=82 = LV \frac{\{2\}}{[2]}\right)$$

$$G\left(82_{Fac(2, 41)} SUM=43 = LV \frac{\{1\}}{[2]}\right)$$

*StopPrime(43)*

$$NN(8376 = Level(2)_{No(1401)})$$

$$G\left(8376_{Fac(2, 2, 2, 3, 349)} SUM=358 = LV \frac{\{2\}}{[2]}\right)$$

$$G\left(358_{Fac(2, 179)} SUM=181 = LV \frac{\{1\}}{[2]}\right)$$

*StopPrime(181)*

$$8385_{facsum} = [[3], [5], [13], [43]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$8385_{facsum} = [[3], [5], [13], [43]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$8385_{facsum} = [[3], [5], [13], [43]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$8388_{facsum} = [[2], [2], [3], [3], [233]] = [3]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$8470_{facsum} = [[2], [5], [7], [11], [11]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$8500_{facsum} = [[2], [2], [5], [5], [5], [17]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$8503_{facsum} = [[11], [773]] = [28]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$8505_{facsum} = [[3], [3], [3], [3], [3], [5], [7]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$8568_{facsum} = [[2], [2], [2], [3], [3], [7], [17]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$8576_{facsum} = [[2], [2], [2], [2], [2], [2], [2], [67]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$8576_{facsum} = [[2], [2], [2], [2], [2], [2], [2], [67]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$NN(8579 = Level(4)_{No(1000)})$$

$$G\left(8579_{Fac(23, 373)} SUM=396 = LV \frac{\{4\}}{[4]}\right)$$

$$G\left(396_{Fac(2, 2, 3, 3, 11)} SUM=21 = LV \frac{\{3\}}{[4]}\right)$$

$$G\left(21_{Fac(3, 7)} SUM=10 = LV \frac{\{2\}}{[4]}\right)$$

$$G\left(10_{Fac(2, 5)} SUM=7 = LV \frac{\{1\}}{[4]}\right)$$

*StopPrime(7)*

$$8580_{facsum} = [[2], [2], [3], [5], [11], [13]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(8583 = Level(4)_{No(1001)})$$

$$\begin{aligned}
& G\left(8583_{Fac(3, 2861) SUM=2864} = LV \frac{\{4\}}{[4]}\right) \\
& G\left(2864_{Fac(2, 2, 2, 2, 179) SUM=187} = LV \frac{\{3\}}{[4]}\right) \\
& G\left(187_{Fac(11, 17) SUM=28} = LV \frac{\{2\}}{[4]}\right) \\
& G\left(28_{Fac(2, 2, 7) SUM=11} = LV \frac{\{1\}}{[4]}\right) \\
& \text{StopPrime}(11)
\end{aligned}$$

$$\begin{aligned}
8613_{facsum} &= [[3], [3], [3], [11], [29]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
8615_{facsum} &= [[5], [1723]] = [12]^3, \text{累乘}_{No(1)} = [E=1, H=3] \\
8634_{facsum} &= [[2], [3], [1439]] = [38]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
8639_{facsum} &= [[53], [163]] = [6]^3, \text{累乘}_{No(1)} = [E=1, H=3]
\end{aligned}$$

$$\begin{aligned}
& NN(8674 = Level(1)_{No(1200)}) \\
& G\left(8674_{Fac(2, 4337) SUM=4339} = LV \frac{\{1\}}{[1]}\right) \\
& \text{StopPrime}(4339)
\end{aligned}$$

$$\begin{aligned}
& NN(8676 = Level(1)_{No(1201)}) \\
& G\left(8676_{Fac(2, 2, 3, 3, 241) SUM=251} = LV \frac{\{1\}}{[1]}\right) \\
& \text{StopPrime}(251)
\end{aligned}$$

$$\begin{aligned}
8680_{facsum} &= [[2], [2], [2], [5], [7], [31]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
8732_{facsum} &= [[2], [2], [37], [59]] = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]
\end{aligned}$$

$$\begin{aligned}
& NN(8732 = Level(5)_{No(1600)}) \\
& G\left(8732_{Fac(2, 2, 37, 59) SUM=100} = LV \frac{\{5\}}{[5]}\right) \\
& G\left(100_{Fac(2, 2, 5, 5) SUM=14} = LV \frac{\{4\}}{[5]}\right) \\
& G\left(14_{Fac(2, 7) SUM=9} = LV \frac{\{3\}}{[5]}\right) \\
& G\left(9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[5]}\right) \\
& G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right) \\
& \text{StopPrime}(5)
\end{aligned}$$



$$\begin{aligned}
& NN(8736 = Level(5)_{No(1601)}) \\
& G\left(8736_{Fac(2, 2, 2, 2, 2, 3, 7, 13)} SUM=33 = LV \frac{\{5\}}{[5]}\right) \\
& \quad G\left(33_{Fac(3, 11)} SUM=14 = LV \frac{\{4\}}{[5]}\right) \\
& \quad G\left(14_{Fac(2, 7)} SUM=9 = LV \frac{\{3\}}{[5]}\right) \\
& \quad G\left(9_{Fac(3, 3)} SUM=6 = LV \frac{\{2\}}{[5]}\right) \\
& \quad G\left(6_{Fac(2, 3)} SUM=5 = LV \frac{\{1\}}{[5]}\right) \\
& \quad StopPrime(5)
\end{aligned}$$

$$\begin{aligned}
8748_{facsum} &= [[2], [2], [3], [3], [3], [3], [3], [3], [3]] = [5]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
8755_{facsum} &= [[5], [17], [103]] = [5]^3, \text{累乘}_{No(1)} = [E=1, H=3] \\
8764_{facsum} &= [[2], [2], [7], [313]] = [18]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
8771_{fac^3sum} &= [[7]^3, [7]^3, [179]^3] = [2395]^2, \text{累乘}_{No(1)} = [E=3, H=2] \\
8775_{facsum} &= [[3], [3], [3], [5], [5], [13]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5] \\
8786_{facsum} &= [[2], [23], [191]] = [6]^3, \text{累乘}_{No(1)} = [E=1, H=3] \\
8795_{facsum} &= [[5], [1759]] = [42]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
8829_{facsum} &= [[3], [3], [3], [3], [109]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2]
\end{aligned}$$

$$\begin{aligned}
& NN(8829 = Level(3)_{No(1400)}) \\
& G\left(8829_{Fac(3, 3, 3, 3, 109)} SUM=121 = LV \frac{\{3\}}{[3]}\right) \\
& \quad G\left(121_{Fac(11, 11)} SUM=22 = LV \frac{\{2\}}{[3]}\right) \\
& \quad G\left(22_{Fac(2, 11)} SUM=13 = LV \frac{\{1\}}{[3]}\right) \\
& \quad StopPrime(13)
\end{aligned}$$

$$\begin{aligned}
& NN(8830 = Level(3)_{No(1401)}) \\
& G\left(8830_{Fac(2, 5, 883)} SUM=890 = LV \frac{\{3\}}{[3]}\right) \\
& \quad G\left(890_{Fac(2, 5, 89)} SUM=96 = LV \frac{\{2\}}{[3]}\right) \\
& \quad G\left(96_{Fac(2, 2, 2, 2, 2, 3)} SUM=13 = LV \frac{\{1\}}{[3]}\right) \\
& \quad StopPrime(13)
\end{aligned}$$

$$8853_{facsum} = [[3], [13], [227]] = [3]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$8918_{facsum} = [[2], [7], [7], [7], [13]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$8944_{facsum} = [[2], [2], [2], [2], [13], [43]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$8944_{facsum} = [[2], [2], [2], [2], [13], [43]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$8944_{facsum} = [[2], [2], [2], [2], [13], [43]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$8988_{facsum} = [[2], [2], [3], [7], [107]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(8993 = Level(2)_{No(1500)})$$

$$G\left(8993_{Fac(17, 23, 23) SUM=63} = LV \frac{\{2\}}{[2]}\right)$$

$$G\left(63_{Fac(3, 3, 7) SUM=13} = LV \frac{\{1\}}{[2]}\right)$$

StopPrime(13)

NN = {9000}、DONE

$$9000_{facsum} = [[2], [2], [2], [3], [3], [5], [5], [5]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$NN(9002 = Level(2)_{No(1501)})$$

$$G\left(9002_{Fac(2, 7, 643) SUM=652} = LV \frac{\{2\}}{[2]}\right)$$

$$G\left(652_{Fac(2, 2, 163) SUM=167} = LV \frac{\{1\}}{[2]}\right)$$

StopPrime(167)

$$NN(9012 = Level(7)_{No(200)})$$

$$G\left(9012_{Fac(2, 2, 3, 751) SUM=758} = LV \frac{\{7\}}{[7]}\right)$$

$$G\left(758_{Fac(2, 379) SUM=381} = LV \frac{\{6\}}{[7]}\right)$$

$$G\left(381_{Fac(3, 127) SUM=130} = LV \frac{\{5\}}{[7]}\right)$$

$$G\left(130_{Fac(2, 5, 13) SUM=20} = LV \frac{\{4\}}{[7]}\right)$$

$$G\left(20_{Fac(2, 2, 5) SUM=9} = LV \frac{\{3\}}{[7]}\right)$$

$$G\left(9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[7]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[7]}\right)$$

StopPrime(5)

$$9023_{facsum} = [[7], [1289]] = [36]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9023_{facsum} = [[7], [1289]] = [6]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$9030_{fac^2sum} = [[2]^2, [3]^2, [5]^2, [7]^2, [43]^2] = [44]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$9045_{facsum} = [[3], [3], [3], [5], [67]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9045_{facsum} = [[3], [3], [3], [5], [67]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$9051_{facsum} = [[3], [7], [431]] = [21]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(9070 = Level(7)_{No(201)})$$

$$G\left(9070_{Fac(2, 5, 907) SUM=914} = LV \frac{\{7\}}{[7]}\right)$$

$$G\left(914_{Fac(2, 457) SUM=459} = LV \frac{\{6\}}{[7]}\right)$$

$$G\left(459_{Fac(3, 3, 3, 17) SUM=26} = LV \frac{\{5\}}{[7]}\right)$$

$$G\left(26_{Fac(2, 13) SUM=15} = LV \frac{\{4\}}{[7]}\right)$$

$$G\left(15_{Fac(3, 5) SUM=8} = LV \frac{\{3\}}{[7]}\right)$$

$$G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[7]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[7]}\right)$$

StopPrime(5)

$$9072_{facsum} = [[2], [2], [2], [2], [3], [3], [3], [3], [7]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$9083_{facsum} = [[31], [293]] = [18]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9108_{fac^2sum} = [[2]^2, [2]^2, [3]^2, [3]^2, [11]^2, [23]^2] = [26]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$9116_{facsum} = [[2], [2], [43], [53]] = [10]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9152_{facsum} = [[2], [2], [2], [2], [2], [2], [11], [13]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9153_{facsum} = [[3], [3], [3], [3], [113]] = [5]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$NN(9189 = Level(6)_{No(800)})$$

$$G\left(9189_{Fac(3, 3, 1021) SUM=1027} = LV \frac{\{6\}}{[6]}\right)$$

$$G\left(1027_{Fac(13, 79) SUM=92} = LV \frac{\{5\}}{[6]}\right)$$

$$G\left(92_{Fac(2, 2, 23) SUM=27} = LV \frac{\{4\}}{[6]}\right)$$

$$G\left(27_{Fac(3, 3, 3) SUM=9} = LV \frac{\{3\}}{[6]}\right)$$

$$G\left(9_{Fac(3, 3) SUM=6} = LV \frac{\{2\}}{[6]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[6]}\right)$$

*StopPrime(5)*

$$9191_{fac sum} = [[7], [13], [101]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

*NN(9197 = Level(6)\_{No(801)})*

$$G\left(9197_{Fac(17, 541) SUM=558} = LV \frac{\{6\}}{[6]}\right)$$

$$G\left(558_{Fac(2, 3, 3, 31) SUM=39} = LV \frac{\{5\}}{[6]}\right)$$

$$G\left(39_{Fac(3, 13) SUM=16} = LV \frac{\{4\}}{[6]}\right)$$

$$G\left(16_{Fac(2, 2, 2, 2) SUM=8} = LV \frac{\{3\}}{[6]}\right)$$

$$G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[6]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[6]}\right)$$

*StopPrime(5)*

$$9215_{fac sum} = [[5], [19], [97]] = [11]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9234_{fac sum} = [[2], [3], [3], [3], [3], [3], [19]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9240_{fac sum} = [[2], [2], [2], [3], [5], [7], [11]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$9240_{fac^2 sum} = [[2]^2, [2]^2, [2]^2, [3]^2, [5]^2, [7]^2, [11]^2] = [6]^3, \text{累乘}_{No(2)} = [E=2, H=3]$$

$$9255_{fac sum} = [[3], [5], [617]] = [25]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9255_{fac sum} = [[3], [5], [617]] = [5]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$9263_{fac sum} = [[59], [157]] = [6]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$9292_{fac sum} = [[2], [2], [23], [101]] = [2]^7, \text{累乘}_{No(1)} = [E=1, H=7]$$

$$9295_{fac^2 sum} = [[5]^2, [11]^2, [13]^2, [13]^2] = [22]^2, \text{累乘}_{No(1)} = [E=2, H=2]$$

$$9308_{fac sum} = [[2], [2], [13], [179]] = [14]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

*NN(9314 = Level(10)\_{No(1)})*

$$G\left(9314_{Fac(2, 4657) SUM=4659} = LV \frac{\{10\}}{[10]}\right)$$

$$\begin{aligned}
& G\left(4659_{Fac(3, 1553) SUM=1556} = LV \frac{\{9\}}{[10]}\right) \\
& G\left(1556_{Fac(2, 2, 389) SUM=393} = LV \frac{\{8\}}{[10]}\right) \\
& G\left(393_{Fac(3, 131) SUM=134} = LV \frac{\{7\}}{[10]}\right) \\
& G\left(134_{Fac(2, 67) SUM=69} = LV \frac{\{6\}}{[10]}\right) \\
& G\left(69_{Fac(3, 23) SUM=26} = LV \frac{\{5\}}{[10]}\right) \\
& G\left(26_{Fac(2, 13) SUM=15} = LV \frac{\{4\}}{[10]}\right) \\
& G\left(15_{Fac(3, 5) SUM=8} = LV \frac{\{3\}}{[10]}\right) \\
& G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[10]}\right) \\
& G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[10]}\right) \\
& \text{StopPrime}(5)
\end{aligned}$$

$$\begin{aligned}
9324_{fac^2 sum} &= [[2]^2, [2]^2, [3]^2, [3]^2, [7]^2, [37]^2] = [38]^2, \text{累乘}_{No(1)} = [E=2, H=2] \\
9331_{fac sum} &= [[7], [31], [43]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2] \\
9331_{fac sum} &= [[7], [31], [43]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]
\end{aligned}$$

$$\begin{aligned}
& NN(9352 = Level(5)_{No(1700)}) \\
& G\left(9352_{Fac(2, 2, 2, 7, 167) SUM=180} = LV \frac{\{5\}}{[5]}\right) \\
& G\left(180_{Fac(2, 2, 3, 3, 5) SUM=15} = LV \frac{\{4\}}{[5]}\right) \\
& G\left(15_{Fac(3, 5) SUM=8} = LV \frac{\{3\}}{[5]}\right) \\
& G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[5]}\right) \\
& G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right) \\
& \text{StopPrime}(5)
\end{aligned}$$

$$\begin{aligned}
& NN(9353 = Level(5)_{No(1701)}) \\
& G\left(9353_{Fac(47, 199) SUM=246} = LV \frac{\{5\}}{[5]}\right) \\
& G\left(246_{Fac(2, 3, 41) SUM=46} = LV \frac{\{4\}}{[5]}\right)
\end{aligned}$$

$$G\left(46_{Fac(2, 23) SUM=25} = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(25_{Fac(5, 5) SUM=10} = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(10_{Fac(2, 5) SUM=7} = LV \frac{\{1\}}{[5]}\right)$$

*StopPrime(7)*

$$9360_{fac sum = [[2], [2], [2], [2], [3], [3], [5], [13]]} = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$NN(9361 = Level(1)_{No(1300)})$$

$$G\left(9361_{Fac(11, 23, 37) SUM=71} = LV \frac{\{1\}}{[1]}\right)$$

*StopPrime(71)*

$$NN(9365 = Level(4)_{No(1100)})$$

$$G\left(9365_{Fac(5, 1873) SUM=1878} = LV \frac{\{4\}}{[4]}\right)$$

$$G\left(1878_{Fac(2, 3, 313) SUM=318} = LV \frac{\{3\}}{[4]}\right)$$

$$G\left(318_{Fac(2, 3, 53) SUM=58} = LV \frac{\{2\}}{[4]}\right)$$

$$G\left(58_{Fac(2, 29) SUM=31} = LV \frac{\{1\}}{[4]}\right)$$

*StopPrime(31)*

$$NN(9369 = Level(4)_{No(1101)})$$

$$G\left(9369_{Fac(3, 3, 3, 347) SUM=356} = LV \frac{\{4\}}{[4]}\right)$$

$$G\left(356_{Fac(2, 2, 89) SUM=93} = LV \frac{\{3\}}{[4]}\right)$$

$$G\left(93_{Fac(3, 31) SUM=34} = LV \frac{\{2\}}{[4]}\right)$$

$$G\left(34_{Fac(2, 17) SUM=19} = LV \frac{\{1\}}{[4]}\right)$$

*StopPrime(19)*

$$NN(9372 = Level(1)_{No(1301)})$$

$$G\left(9372_{Fac(2, 2, 3, 11, 71) SUM=89} = LV \frac{\{1\}}{[1]}\right)$$

*StopPrime(89)*

$$9378_{fac\ sum} = [[2], [3], [3], [521]] = [23]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9379_{fac\ sum} = [[83], [113]] = [14]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9384_{fac\ sum} = [[2], [2], [2], [3], [17], [23]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9394_{fac\ sum} = [[2], [7], [11], [61]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9394_{fac\ sum} = [[2], [7], [11], [61]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$9420_{fac\ sum} = [[2], [2], [3], [5], [157]] = [13]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9434_{fac\ sum} = [[2], [53], [89]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$3 \text{ つ子2連} \left[ \begin{array}{c} 9467 \\ P_1 \end{array}, \begin{array}{c} [6], 9473 \\ P_2 \end{array}, \begin{array}{c} [6], 9479 \\ P_3 \end{array} \right] = [KK([6]) = No(57), 2 Ren]$$

$$9464_{fac^3\ sum} = [[2]^3, [2]^3, [2]^3, [7]^3, [13]^3, [13]^3] = [69]^2, \text{累乘}_{No(1)} = [E=3, H=2]$$

$$9516_{fac\ sum} = [[2], [2], [3], [13], [61]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9516_{fac\ sum} = [[2], [2], [3], [13], [61]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$9518_{fac\ sum} = [[2], [4759]] = [69]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9523_{fac\ sum} = [[89], [107]] = [14]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9570_{fac^2\ sum} = [[2]^2, [3]^2, [5]^2, [11]^2, [29]^2] = [10]^3, \text{累乘}_{No(1)} = [E=2, H=3]$$

$$NN(9570 = Level(3)_{No(1500)})$$

$$G\left( \begin{array}{c} 9570_{Fac(2, 3, 5, 11, 29) SUM=50} = LV \frac{\{3\}}{[3]} \end{array} \right)$$

$$G\left( \begin{array}{c} 50_{Fac(2, 5, 5) SUM=12} = LV \frac{\{2\}}{[3]} \end{array} \right)$$

$$G\left( \begin{array}{c} 12_{Fac(2, 2, 3) SUM=7} = LV \frac{\{1\}}{[3]} \end{array} \right)$$

StopPrime(7)

$$9583_{fac\ sum} = [[7], [37], [37]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9583_{fac\ sum} = [[7], [37], [37]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$NN(9583 = Level(3)_{No(1501)})$$

$$G\left( \begin{array}{c} 9583_{Fac(7, 37, 37) SUM=81} = LV \frac{\{3\}}{[3]} \end{array} \right)$$

$$G\left( \begin{array}{c} 81_{Fac(3, 3, 3, 3) SUM=12} = LV \frac{\{2\}}{[3]} \end{array} \right)$$

$$G\left( \begin{array}{c} 12_{Fac(2, 2, 3) SUM=7} = LV \frac{\{1\}}{[3]} \end{array} \right)$$

*StopPrime(7)*

$$9595_{facsum} = [[5], [19], [101]] = [5]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$9600_{facsum} = [[2], [2], [2], [2], [2], [2], [2], [2], [3], [5], [5]] = [3]^3, \text{累乘}_{No(1)} = [E=1, H=3]$$

$$9604_{facsum} = [[2], [2], [7], [7], [7], [7]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$9639_{facsum} = [[3], [3], [3], [3], [7], [17]] = [6]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$NN(9640 = Level(2)_{No(1600)})$$

$$G\left(9640_{Fac(2, 2, 2, 5, 241)} SUM=252 = LV \frac{\{2\}}{[2]}\right)$$

$$G\left(252_{Fac(2, 2, 3, 3, 7)} SUM=17 = LV \frac{\{1\}}{[2]}\right)$$

*StopPrime(17)*

$$NN(9645 = Level(2)_{No(1601)})$$

$$G\left(9645_{Fac(3, 5, 643)} SUM=651 = LV \frac{\{2\}}{[2]}\right)$$

$$G\left(651_{Fac(3, 7, 31)} SUM=41 = LV \frac{\{1\}}{[2]}\right)$$

*StopPrime(41)*

$$9648_{facsum} = [[2], [2], [2], [2], [3], [3], [67]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9648_{facsum} = [[2], [2], [2], [2], [3], [3], [67]] = [3]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$9655_{facsum} = [[5], [1931]] = [44]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9695_{facsum} = [[5], [7], [277]] = [17]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9765_{facsum} = [[3], [3], [5], [7], [31]] = [7]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9794_{facsum} = [[2], [59], [83]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9815_{facsum} = [[5], [13], [151]] = [13]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9825_{facsum} = [[3], [5], [5], [131]] = [12]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9856_{facsum} = [[2], [2], [2], [2], [2], [2], [2], [2], [7], [11]] = [2]^5, \text{累乘}_{No(1)} = [E=1, H=5]$$

$$9870_{facsum} = [[2], [3], [5], [7], [47]] = [8]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9870_{facsum} = [[2], [3], [5], [7], [47]] = [4]^3, \text{累乘}_{No(2)} = [E=1, H=3]$$

$$9870_{facsum} = [[2], [3], [5], [7], [47]] = [2]^6, \text{累乘}_{No(3)} = [E=1, H=6]$$

$$9872_{facsum} = [[2], [2], [2], [2], [617]] = [25]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$

$$9872_{facsum} = [[2], [2], [2], [2], [617]] = [5]^4, \text{累乘}_{No(2)} = [E=1, H=4]$$

$$9911_{facsum} = [[11], [17], [53]] = [9]^2, \text{累乘}_{No(1)} = [E=1, H=2]$$



$$9911_{facsum} = [[11], [17], [53]] = [3]^4, \text{累乗}_{No(2)} = [E=1, H=4]$$

$$9933_{facsum} = [[3], [7], [11], [43]] = [8]^2, \text{累乗}_{No(1)} = [E=1, H=2]$$

$$9933_{facsum} = [[3], [7], [11], [43]] = [4]^3, \text{累乗}_{No(2)} = [E=1, H=3]$$

$$9933_{facsum} = [[3], [7], [11], [43]] = [2]^6, \text{累乗}_{No(3)} = [E=1, H=6]$$

$$NN(9970 = Level(5)_{No(1800)})$$

$$G\left(9970_{Fac(2, 5, 997) SUM=1004} = LV \frac{\{5\}}{[5]}\right)$$

$$G\left(1004_{Fac(2, 2, 251) SUM=255} = LV \frac{\{4\}}{[5]}\right)$$

$$G\left(255_{Fac(3, 5, 17) SUM=25} = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(25_{Fac(5, 5) SUM=10} = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(10_{Fac(2, 5) SUM=7} = LV \frac{\{1\}}{[5]}\right)$$

*StopPrime(7)*

$$NN(9975 = Level(5)_{No(1801)})$$

$$G\left(9975_{Fac(3, 5, 5, 7, 19) SUM=39} = LV \frac{\{5\}}{[5]}\right)$$

$$G\left(39_{Fac(3, 13) SUM=16} = LV \frac{\{4\}}{[5]}\right)$$

$$G\left(16_{Fac(2, 2, 2, 2) SUM=8} = LV \frac{\{3\}}{[5]}\right)$$

$$G\left(8_{Fac(2, 2, 2) SUM=6} = LV \frac{\{2\}}{[5]}\right)$$

$$G\left(6_{Fac(2, 3) SUM=5} = LV \frac{\{1\}}{[5]}\right)$$

*StopPrime(5)*

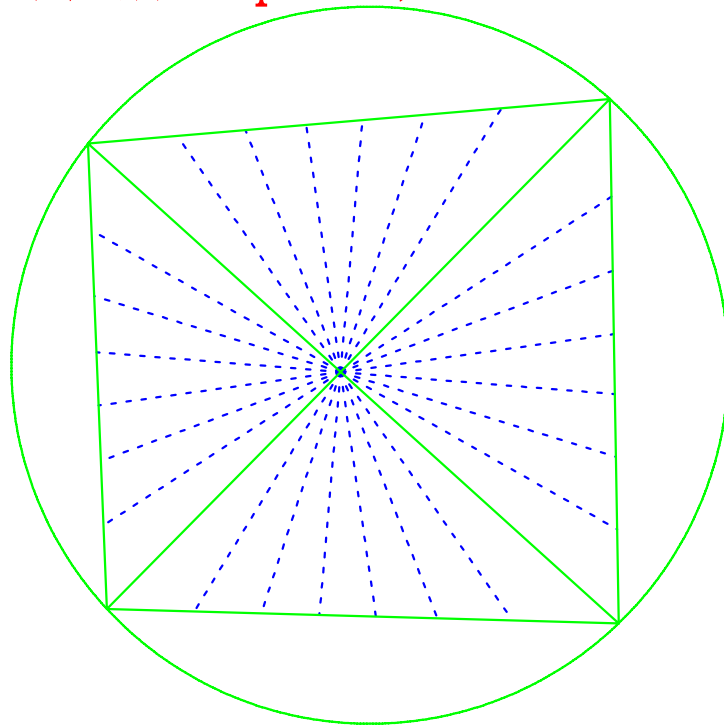
$$9983_{facsum} = [[67], [149]] = [6]^3, \text{累乗}_{No(1)} = [E=1, H=3]$$

$$9984_{facsum} = [[2], [2], [2], [2], [2], [2], [2], [2], [2], [3], [13]] = [2]^5, \text{累乗}_{No(1)} = [E=1, H=5]$$

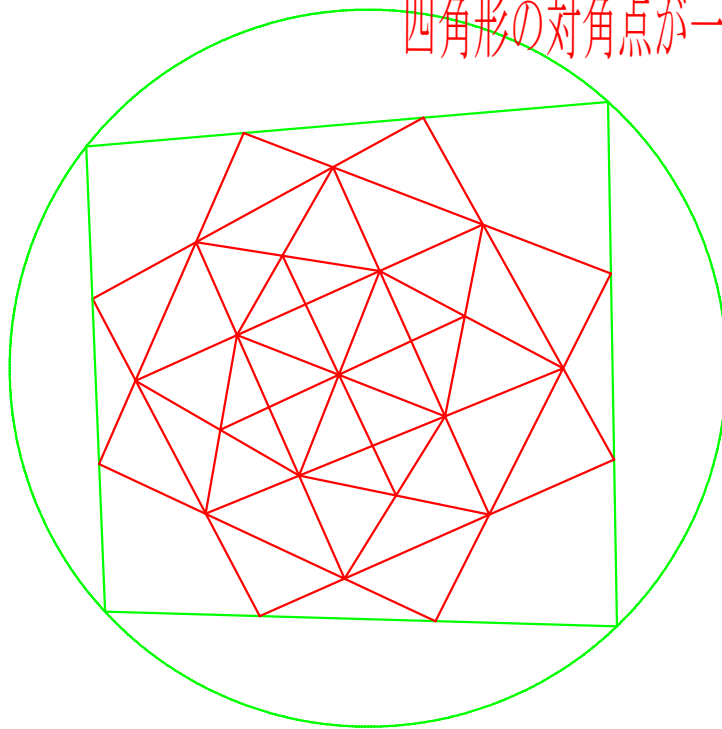
*NN = {10000}、DONE*

蛭子井博孝の自然数1000までの素数と累乗数とレベル数の対応表,  
"2021-08-05-(02:10:08 AM)"

# 幾何数学直論183 p の等分ダイヤの定理の補足線



上の角（対角線の開角）等分線（7等分）と四角形の交点を使用  
四角形の対角点が一致するようにとる



## 等分ダイヤの定理