Unit ACDG.go
e^2 and prime sequence next door
A case for Sherlock Holmes

ACDG.1 Start

Let's start our story with

A = [3;5,7,9,11,13,15,17,19,21,23,25,…]
scf of the odd number sequence
= 3.194528055… (1)

B = [3;5,7,11,13,17,19,23,29,31,37,…]
scf of the odd prime sequence[1)]
= 3.194513243… (2.1)

1) Here we set $p_1=3$, $p_2=5$, $p_3=7$, $p_4=11$, … (2.2)

ACDG.2 A⇔e^2 area

$2A+1 = e^2$
$= 2.7182818284...^2 = 7.389056099…$
$= [2;1,2,1,1,4,1,1,6,1,1,8,1,1,10,1,…]^2$

	i
= [7;2,1,1,3,18=2*9,5,1,	1
1,6,30=2*15,8,1,	2
1,9,42=2*21,11,1,	3
1,12,54=2*27,14,1,	4

1,15,66=2*33,17,1, 5

:

$1,a_i,b_i,c_i,1,\ldots];$ (3.1)

1) 2) 3) 4) 5)

3) backbone

2), 4) by-catch left, right

1), 5) bodyguards

$$a_i=3i=\frac{1}{4}(b_i-6) \quad (3.2)$$

$$b_i=12i+6=2*(6i+3)$$

$$=4a_i+6 \quad (3.3)$$

$$c_i=3i+2=a_i+2$$

$$=\frac{1}{4}(b_i+2) \quad (3.4)$$

$$b_i-2(a_i+c_i)=2 \quad (3.5)$$

$$\begin{vmatrix} a_i & b_i & c_i \\ a_{i+1} & b_{i+1} & c_{i+1} \\ a_{i+2} & b_{i+2} & c_{i+2} \end{vmatrix} = 0 \quad (3.6)$$

$$\frac{1}{2}A+1=\frac{1}{4}(e^2+3)$$

$$= 2.597264024732662556807606865$$
$$143751953295078892637961831021$$
$$781955630643449019764440846078121269780449\ldots$$

i

= [2;1,1,2,14,4,1, 1
1,5,26,7,1, 2
1,8,38,10,1, 3
1,11,50,13,1 4
1,14,62,16,1, 5
:

$1,\alpha_i,\beta_i,\gamma_i,1,\ldots];$ (4.1)

$\alpha_i=3i-1=\frac{1}{4}(\beta_i-6)$ (4.2)

$\beta_i=12i+2=2*(6i+1)$

$=4\alpha_i+6$ (4.3)

$\gamma_i=3i+1=\alpha_i+2$

$=\frac{1}{4}(\beta_i+2)$ (4.4)

$\beta_i-2(\alpha_i+\gamma_i)=2$ (4.5)

$$\begin{vmatrix} \alpha_i & \beta_i & \gamma_i \\ \alpha_{i+1} & \beta_{i+1} & \gamma_{i+1} \\ \alpha_{i+2} & \beta_{i+2} & \gamma_{i+2} \end{vmatrix} = 0 \quad (4.6)$$

Find more.

$$\frac{A+1}{3A+1}=\frac{e^2+1}{3e^2-1}$$

$$= 0.396323966498725153415351723$$
$$161824640943309945209578452282$$
$$608163617976675973909615158131$$
$$7174987397815 08\ldots$$

$$= [0;\ 2,\ 1,\ 1,\ 10,\ 3,1, \qquad i=1$$
$$1,\ 4,\ 22,\ 6,1, \qquad i=2$$
$$1,\ 7,\ 34,\ 9,1, \qquad i=3$$
$$1,\ 10,\ 46,\ 12,1, \qquad i=4$$
$$1,\ 13,\ 58,\ 15,1, \qquad i=5$$
$$\vdots$$
$$1,\ \lambda_i,\ \mu_i,\ \nu_i,1,\ \ldots]; \qquad (5.1)$$

$$\lambda_i=3i-2=\frac{1}{4}(\mu_i-6) \qquad (5.2)$$

$$\mu_i=12i-2=2*(6i-1)$$

$$=4\lambda_i+6 \qquad (5.3)$$

$$\nu_i=3i=\lambda_i+2=\frac{1}{4}(\mu_i+2) \qquad (5.4)$$

$$\mu_i-2(\lambda_i+\nu_i)=2 \qquad (5.5)$$

$$\begin{vmatrix} \lambda_i & \mu_i & \nu_i \\ \lambda_{i+1} & \mu_{i+1} & \nu_{i+1} \\ \lambda_i & \mu_{i+2} & \nu_{i+2} \end{vmatrix} = 0 \qquad (5.6)$$

Problem 1

** Bonding, normalization, extension of equs (3), (4), and (5)

	i
[0, 1, 1, 0, 6, 2, 1	1
1, 3, 18, 5, 1	2
1, 6, 30, 8, 1	3
1, 9, 42, 11, 1	4
1, 12, 54, 14, 1	5
:	
1, 3i-3, 12i-6, 3i-1, 1, …] =	

$$\frac{2A+1}{2A+2} = \frac{e^2}{e^2+1} \qquad (6)$$

	i
[0; 1, 1, 1, 10, 3, 1,	1
1, 4, 22, 6, 1,	2
1, 7, 34, 9, 1,	3
1, 10, 46, 12, 1,	4

$$
\begin{array}{ll}
1, 13, 58, 15, 1, & 5 \\
\quad\vdots & \\
1, 3i\text{-}2, 12i\text{-}2, 3i, 1, \ldots] = &
\end{array}
$$

$$\frac{A+1}{2A} = \frac{e^2+1}{2e^2-2} \qquad (7)$$

$$
\begin{array}{ll}
 & i \\
[0; 1, 1, 2, 14, 4, 1, & 1 \\
\quad 1, 5, 26, 7, 1, & 2 \\
\quad 1, 8, 38, 10, 1, & 3 \\
\quad 1, 11, 50, 13, 1 & 4 \\
\quad 1, 14, 62, 16, 1 & 5 \\
\quad\vdots & \\
\quad 1, 3i\text{-}1, 12i+2, 3i+1, 1, \ldots] = &
\end{array}
$$

$$\frac{1}{2}A\text{-}1 = \frac{1}{4}(e^2\text{-}5) \qquad (8)$$

$$
\begin{array}{ll}
 & i \\
[0, 1, 1, 3, 18, 5, 1, & 1 \\
\quad 1, 6, 30, 8, 1, & 2 \\
\quad 1, 9, 42, 11, 1, & 3 \\
\quad 1, 12, 54, 14, 1, & 4 \\
\quad 1, 15, 66, 17, 1, & 5 \\
\quad\vdots & \\
\quad 1, 3i, 12i+6, 3i+2, 1, \ldots] = &
\end{array}
$$

$$\frac{13-4A}{2A-6} = \frac{15-2e^2}{e^2-7} \qquad (9)$$

$$\begin{array}{ll} & i \\ [0;\ 1,\ 1,\ 4,\ 22,\ 6,\ 1, & 1 \\ \quad 1,\ 7,\ 34,\ 9,\ 1, & 2 \\ \quad 1,\ 10,\ 46,\ 12,\ 1, & 3 \\ \quad 1,\ 13,\ 58,\ 15,\ 1, & 4 \\ \quad 1,\ 16,\ 70,\ 18,\ 1, & 5 \\ \qquad : & \\ \quad 1,\ 3i+1,\ 12i+10,\ 3i+3,\ 1,\ \ldots] = & \end{array}$$

$$\frac{62A-198}{64-20A} = \frac{31e^2-229}{74-10e^2} \qquad (10)$$

** and generalization of equs (6) – (10)

$$W(z) = [0;\ 1,\ \overline{1,\ a_i,\ b_i,\ c_i,\ 1,}^{\infty}{}_{i=1}]$$

$$a_i = 3i+z = \frac{1}{4}(b_i - 6)\ ;\ z \in \mathbb{Z}$$

$$b_i = 12i+4z+6 = 2*(6i+2z+3)$$

$$= 4a_i + 6$$

$$c_i = 3i+z+2 = a_i + 2 = \frac{1}{4}(b_i + 2)$$

$$b_i - 2(a_i + c_i) = 2$$

.
$$\begin{vmatrix} a_i & b_i & c_i \\ a_{i+1} & b_{i+1} & c_{i+1} \\ a_i & b_{i+2} & c_{i+2} \end{vmatrix} = 0$$

.
$$\begin{vmatrix} a_i & b_i & c_i \\ a_{i+1} & b_{i+1} & c_{i+1} \end{vmatrix} = -18$$

(see Unit 19, equs (1) – (3))

$$\begin{vmatrix} a_i & c_i \\ a_{i+1} & c_{i+1} \end{vmatrix} = -6$$

There are only 3 different by-catch strands: #, #, #.

$$= \frac{S(z)*A+T(z)}{U(z)*A+V(z)} = \frac{s(z)*e^2+t(z)}{u(z)*e^2+v(z)} \quad (11)$$

** **Find** formula expressions or recurrence equations for the coefficients S(z), T(z), U(z), V(z), s(z), t(z), u(z), and v(z).

ACDG.3 B⇔transformed prime area

2B+1 = 7.389026485472386625781962106901103568767948786394236387653439386709382450728552535191575397312294668…

= W

$= 2.718276381\ldots^2 = e^2_{\text{prime}}$ (12.1)

i

= [7; 2, 1, 1, 3, 22=2*11, 6, 1, 1
1, 8, 38=2*19, 11, 1, 2
1, 14, 62=2*31, 18, 1, 3
1, 20, 86=2*43, 23, 1, 4
1, 26, 118, 30, 1, 5
1, 33, 142, 36, 1, 6

1, 39, 166, 44, 1, 7
1, 48, 202, 51, 1, 8
1, 53, 218, 56, 1, 9
1, 63, 262, 68, 1, 10
1, 69, 298, 75, 1, 11
1, 78, 326, 83, 1, 12
1, 86, 358, 90, 1, 13
1, 95, 386, 98, 1, 14
1, 99, 422, 111, 1, 15
1, 113, 458, 116, 1, 16
1, 119, 482, 125, 1, 17
1, 128, 526, 134, 1, 18
1, 135, 554, 140, 1, 19
1, 141, 586, 153, 1, 20
1, 155, 626, 158, 1, 21
1, 165, 674, 173, 1, 22
1, 174, 706, 179, 1, 23
1, 183, 746, 189, 1, 24
1, 191, 778, 198, 1, 25
1, 200, 818, 209, 1, 26
1, 210, 862, 216, 1, 27
1, 219, 886, 224, 1, 28
1, 228, 922, 231, 1, 29
1, 233, 958, 243, 1 30
1, 245, 998, 251, 1 31

$$1,\ 254,\ 1042,\ 261,\ 1,\quad 32$$
$$1,\ 270,\ 1094,\ 278,\ 1\quad 33$$
$$\vdots$$
$$1,\ u_i,\ v_i,\ w_i,\ 1,\ \ldots] \qquad (12.2)$$

1) 2) 3) 4) 5)

3) backbone

2), 4) by-catch left, right

1), 5) bodyguards

Reversible transformation of the prime sequence into the triad (u_i, v_i, w_i) sequence.

Problem 2

Discuss

** "e_{prime}" = ?, (12.3.1)

** e^{x}_{prime}, e^{jx}_{prime}, ... (12.3.2)

** the analogue of "$e^{j\pi}+1=0$" [1,2] $\rightarrow$

$e^{j\pi_{prime}}_{prime}+1=0$. (12.3.3)

https://en.wikipedia.org/wiki/Euler%27s_identity

https://en.wikipedia.org/wiki/Mathematical_beauty

Calculate π_{prime} and scf(π_{prime}) and compare with π and scf(π). Extend for powers.

Problem 3

From equ. (12.2) we obtain immediately

$u_i \bmod 3 \in \{0,2\}$ (12.4.1)

$\mathbf{v_i = 2*p_{3i+1}}$ (3:1-reduced prime sequence!)

(12.4.2)

$w_i \bmod 3 \in \{0,2\}$. (12.4.3)

If you could find formula expressions for u_i and w_i too (see equ. (3.2)) then you would be able to generate the full prime sequence from these u_i and w_i and the 3:1-reduced prime sequence via

$$(u_i, v_i, w_i) \rightarrow W \rightarrow A = \frac{1}{2}(W-1) \rightarrow \text{scf}(A) .$$

And now: **loop this reduction,** deeper and deeper!

Another trail:

$$\frac{1}{2}B+1 = 2.59725662\ldots$$

$$= WW$$

$$= \frac{1}{4}(e^2_{\text{prime}} + 3)$$

$$= [2;\ 1,\ 1,\ 2,\ 14,\ 5,\ 1 \qquad i=1$$
$$1,\ 6,\ 34,\ 9,\ 1, \qquad 2$$
$$1,\ 11,\ 58,\ 15,\ 1, \qquad 3$$
$$1,\ 18,\ 82,\ 21,\ 1, \qquad 4$$

1, 23, 106, 29, 1,	5
1, 30, 134, 35, 1,	6
1, 36, 158, 41, 1	7
1, 44, 194, 50, 1,	8
1, 51, 214, 54, 1,	9
1, 56, 254, 65, 1,	10
1, 68, 278, 74, 1,	11
1, 75, 314, 81, 1,	12
1, 83, 346, 89, 1,	13
1, 90, 382, 96, 1,	14
1, 98, 398, 105, 1,	15
1, 111, 454, 114, 1,	16
1, 116, 478, 120, 1,	17
1, 125, 514, 131, 1,	18
1, 134, 542, 138, 1,	19
1, 140, 566, 146, 1,	20
1, 153, 622, 156, 1,	21
1, 158, 662, 168, 1,	22
1, 173, 698, 176, 1,	23
1, 179, 734, 186, 1,	24
1, 189, 766, 194, 1,	25
1, 198, 802, 204, 1,	26
1, 209, 842, 215, 1,	27
1, 216, 878, 221, 1,	28
1, 224, 914, 230, 1,	29

$$
\begin{array}{ll}
1, 231, 934, 239, 1, & 30 \\
1, 243, 982, 249, 1, & 31 \\
1, 251, 1018, 260, 1, & 32 \\
\quad : & \\
1, \rho_i, \sigma_i, \tau_i, 1, \ldots] & (14.1)
\end{array}
$$

with

$$\rho_i \bmod 3 \in \{0,2\} \qquad (14.2.1)$$

$\boldsymbol{\sigma_i = 2*p_{3i}}$ (3:1-reduced prime sequence!)

(14.2.2)

$$\tau_i \bmod 3 \in \{0,2\} \ . \qquad (14.2.3)$$

If you could find formula expressions for u_i and w_i too (see equ. (3.2)) then you would be able to generate the full prime sequence from these u_i and w_i and the 3:1-reduced prime sequence via

$$(u_i, v_i, w_i) \rightarrow WW \rightarrow B = 2(WW-1) \rightarrow \text{scf}(B)$$

Problem 4

B = [3;5,7,11,13,17,19,23,29,31,37,…]
scf of the odd prime sequence[1)]
= 3.194513243… (2.1)

1) Here we set $p_1=3, p_2=5, p_3=7, p_4=11, \ldots$ (2.2)

$$2B+1 = 7.389026485472386625781962106901103568767948786394236387653439386709382450728552535191575397312294668\ldots$$

$$= W$$

$$= 2.718276381\ldots^2 = e^2_{prime} \qquad (12.1)$$

** Bonding, normalization, extension of equs (12), and (14)

$$\begin{array}{ll} & i \\ [0, 1, 1, 0, 6, 2, 1 & 1 \\ \quad 1, 3, 22, 6, 1 & 2 \\ \quad 1, 8, 38, 11, 1 & 3 \\ \quad 1, 14, 62, 18, 1 & 4 \\ \quad 1, 20, 86, 23, 1 & 5 \\ \quad\quad : & \\ \quad 1, ?_i, 2p_{3i-2}, ???_i, 1, \ldots] = & \end{array}$$

$$\frac{2B+1}{2B+2} = \frac{e^2_{prime}}{e^2_{prime}+1} \qquad (15)$$

$$\begin{array}{ll} & i \\ [0; 1, 1, 1, 10, 3, 1, & 1 \end{array}$$

$$
\begin{array}{ll}
1, 5, 26, 8, 1, & 2 \\
1, 9, 46, 14, 1, & 3 \\
1, 15, 74, 20, 1, & 4 \\
1, 21, 94, 26, 1, & 5 \\
\quad : & \\
1, ?_i, 2p_{3i-1}, ???_i, 1, \ldots] = &
\end{array}
$$

$$
\frac{B+1}{2B} = \frac{e^2_{prime}+1}{2e^2_{prime}-2} \qquad (16)
$$

$$
\begin{array}{ll}
 & i \\
[0; 1, 1, 2, 14, 5, 1, & 1 \\
1, 6, 34, 9, 1, & 2 \\
1, 11, 58, 15, 1, & 3 \\
1, 18, 82, 21, 1 & 4 \\
1, 23, 106, 29, 1 & 5 \\
\quad : & \\
1, ?_i, 2p_{3i}, ???_i, 1, \ldots] = &
\end{array}
$$

$$
\frac{1}{2}B - 1 = \frac{1}{4}(e^2_{prime} - 5) \qquad (17)
$$

$$
\begin{array}{ll}
 & i \\
[0, 1, 1, 3, 22, 6, 1, & 1 \\
1, 8, 38, 11, 1, & 2 \\
1, 14, 62, 18, 1, & 3 \\
1, 20, 86, 23, 1, & 4
\end{array}
$$

$$1, 26, 118, 30, 1, \qquad 5$$
$$\vdots$$
$$1, ?_i, 2p_{3i+1}, ???_i, 1, \ldots] =$$

$$\frac{13\text{-}4B}{2B\text{-}6} = \frac{15\text{-}2e^2_{prime}}{e^2_{prime}\text{-}7} \qquad (18)$$

** and generalization of equs (15) – (18)

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

There is a prime-treasure hidden in this vineyard, dig, dig,…

Aesop

https://fablesofaesop.com/the-father-and-his-sons.html

Lateral

ACDG.L.1

scf(2*[1;1,1,2,1,1,3,1,1,4,1,1,5,1,1,6,1,1,…]) =

[6;3,16,5,24,7,32,9,40,11,48, 13,56,15,64,17,72,19,80,21,88,23,96,…]

scf(2*[1;1,1,3,1,1,5,1,1,7,1,1,9,1,1,11,1,1,…]) =

[3;8,12,16,20,24,28,32,36,40,44,48,52,56,60,64,68,72,76,80,84,…]

scf(2*[1;1,1,4,1,1,7,1,1,10,1,1,13,1,1,16,1,1,19,1,1,
22,1,1,25,1,1,28,1,1,…]) =

[3;10,16,22,28,34,40,46,52,58,64,70,76,82,88,94,100,106,112,118,124,…]

scf(2*[1;1,1,5,1,1,9,1,1,13,1,1,17,1,1,21,1,1,25,1,1,
29,1,1,33,1,1,37,1,1,…]) =

[3;12,20,28,36,44,52,60,68,76,84,92,100,108,116,124,132,140,148,156,…]

scf(2*[1;1,1,1,1,1,2,1,1,3,1,1,5,1,1,8,1,1,13,1,1,
21,1,1,34,1,1,55,1,1,…]) =

[3;4,6,8,12,18,28,44,70,112,180,290,468,756,1222,1976,3196,5170,8364,
13532,21894,35424,57316,92738,150052,242788,392838,635624,1028460,…]

scf(2*[1;1,1,3,1,1,5,1,1,7,1,1,11,1,1,13,1,1,17,1,1,
19,1,1,23,1,1,29,1,1,…]) =

[3;8,12,16,24,28,36,40,48,60,64,76,84,88,96,108,120,124,136,144,148,…]

scf(4*[1;1,1,2,1,1,3,1,1,4,1,1,5,1,1,6,1,1,…]) =

[6;3,16,5,24,7,32,9,40,11,48,13,56,15,64,17,72,19,80,21,88,23,96,…]

scf(4*[1;1,1,3,1,1,5,1,1,7,1,1,9,1,1,11,1,1,…]) =

[6;4,24,8,40,12,56,16,72,20,88,24,104,28,120,32,136,36,152,40,168,44,…]

scf(4*[1;1,1,4,1,1,]7,1,1,10,1,1,13,1,1,16,1,1,19,1,
1,22,1,1,25,1,1,28,1,1,…]) =

[6;5,32,11,56,17,80,23,104,29,128,35,152,41,176,47,200,53,224,59,248,65,…]

scf(4*[1;1,1,5,1,1,9,1,1,13,1,1,17,1,1,21,1,1,25,1,1,
29,1,1,33,1,1,37,1,1,…]) =

[6;6,40,14,72,22,104,30,136,38,168,46,200,54,232,62,264,70, 296,78,328,…]

scf(4*[1;1,1,1,1,1,2,1,1,3,1,1,5,1,1,8,1,1,13,1,1,
21,1,1,34,1,1,55,1,1,…]) =

[6;2,12,4,24,9,56,22,140,56,360,145,936,378,2444,988,6392,2585,16728,…]

scf(4*[1;1,1,3,1,1,5,1,1,7,1,1,11,1,1,13,1,1,17,1,1,
19,1,1,23,1,1,29,1,1,…]) =

[6;4,24,8,48,14,72,20,96,30,128,38,168,44,192,54,240,62,272,72,296,80,
336,90,392,102,416,108,440,114,512,132,552,140,600,152,632,164,672,174,
720,182,768,194,792,200,…]

More

scf(3*[1;1,1,2,1,1,3,1,1,4,1,1,5,1,1,6,1,1,…]) =

[4; 1, 2, 1, 11,

```
1, 1,  1, 5, 1,   1, 5, 1,  1, 1, 1,  23,
1, 1,  2, 1, 1,  29,
1, 1,  3, 5, 1,   3, 5, 1,  3, 1, 1,  41,
1, 1,  4, 1, 1,  47,
1, 1,  5, 5, 1,   5, 5, 1,  5, 1, 1,  59,
1, 1,  6, 1, 1,  65,
1, 1,  7, 5, 1,   7, 5, 1,  7, 1, 1,  77,
1, 1,  8, 1, 1,  83,
1, 1,  9, 5, 1,   9, 5, 1,  9, 1, 1,  95,
1, 1, 10, 1, 1, 101,
1, 1, 11, 5, 1,  11, 5, 1, 11, 1, 1, 113,
1, 1, 12, 1, 1, 119,
1, 1, 13, 5, 1,  13, 5, 1, 13, 1, 1, 131,
1, 1, 14, 1, 1, 137,
1, 1, 15, 5, 1,  15, 5, 1, 15, 1, 1, 149,
1, 1, 16, 1, 1, 155,
1, 1, 17, 5, 1,  17, 5, 1, 17, 1, 1, 167,
1, 1, 18, 1, 1, 173,
1, 1, 19, 5, 1,  19, 5, 1, 19, 1, 1, 185,
1, 1, 20, 1, 1, 191,
1, 1, 21, 5, 1,  21, 5, 1, 21, 1, 1, 203,
1, 1, 22, 1, 1, 209,
1, 1, 23, 5, 1,  23, 5, 1, 23, 1, 1, 221,
1, 1, 24, 1, 1, 227,
1, 1, 25, 5, 1,  25, 5, 1, 25, 1, 1, 239,
1, 1, 26, 1, 1, 245,
1, 1, 27, 5, 1,  27, 5, 1, 27, 1, 1, 257,
1, 1, 28, 1, 1, 263,
1, 1, 29, 5, 1,  29, 5, 1, 29, 1, 1, 275,
1, 1, 30, 1, 1, 281,
1, 1, 31, 5, 1,  31, 5, 1, 31, 1, 1, 293, …]
```

scf(5*[1;1,1,2,1,1,3,1,1,4,1,1,5,1,1,6,1,1,…]) =

```
[7; 1, 9, 1, 9, 9, 1, 9, 2, 1, 39,
1, 1,  1, 3, 3,  1, 1, 2,  2, 1,  1,  1, 1, 59,
1, 1,  2, 9, 1,  1, 1, 9,  2, 1,  9,  3, 9,   1,  2, 1, 1, 89,
1, 1,  3, 3, 3,  3, 1, 2,  2, 1,  3,  1, 1, 109,
1, 1,  4, 9, 1,  3, 1, 9,  4, 1,  9,  5, 9,   1,  4, 1, 1, 139,
1, 1,  5, 3, 3,  5, 1, 2,  2, 1,  5,  1, 1, 159,
1, 1,  6, 9, 1,  5, 1, 9,  6, 1,  9,  7, 9,   1,  6, 1, 1, 189,
1, 1,  7, 3, 3,  7, 1, 2,  2, 1,  7,  1, 1, 209,
1, 1,  8, 9, 1,  7, 1, 9,  8, 1,  9,  9, 9,   1,  8, 1, 1, 239,
1, 1,  9, 3, 3,  9, 1, 2,  2, 1,  9,  1, 1, 259,
1, 1, 10, 9, 1,  9, 1, 9, 10, 1,  9, 11, 9,   1, 10, 1, 1, 289,
1, 1, 11, 3, 3, 11, 1, 2,  2, 1, 11,  1, 1, 309,
1, 1, 12, 9, 1, 11, 1, 9, 12, 1,  9, 13, 9,   1, 12, 1, 1, 339,
1, 1, 13, 3, 3, 13, 1, 2,  2, 1, 13,  1, 1, 359,
1, 1, 14, 9, 1, 13, 1, 9, 14, 1,  9, 15, 9,   1, 14, 1, 1, 389,
1, 1, 15, 3, 3, 15, 1, 2,  2, 1, 15,  1, 1, 409,
1, 1, 16, 9, 1, 15, 1, 9, 16, 1,  9, 17, 9,   1, 16, 1, 1, 439,
1, 1, 17, 3, 3, 17, 1, 2,  2, 1, 17,  1, 1, 459,
1, 1, 18, 9, 1, 17, 1, 9, 18, 1,  9, 19, 9,   1, 18, 1, 1, 489, …]
```

scf(32*[1;1,1,2,1,1,3,1,1,4,1,1,5,1,1,6,1,1,…]) =

```
[50; 1, 1,  1, 1, 2, 1, 1, 194,
       7,  3, 1,  7,  1,  320,
 1, 2, 1,  1, 1,  5,  2,    1, 1, 1,  1,  448,
 1, 1, 7,  7, 1,  7,  2,  576,
 2, 2, 1,  1, 1,  9,  2,    1, 1, 1,  2,  704,
 2, 1, 7, 11, 1,  7,  3,  832,
 3, 2, 1,  1, 1, 13,  2,    1, 1, 1,  3,  960,
 3, 1, 7, 15, 1,  7,  4, 1088,
 4, 2, 1,  1, 1, 17,  2,    1, 1, 1,  4, 1216,
 4, 1, 7, 19, 1,  7,  5, 1344,
 5, 2, 1,  1, 1, 21,  2,    1, 1, 1,  5, 1472,
 5, 1, 7, 23, 1,  7,  6, 1600,
 6, 2, 1,  1, 1, 25,  2,    1, 1, 1,  6, 1728,
 6, 1, 7, 27, 1,  7,  7, 1856,
```

```
 7, 2, 1,  1, 1, 29,  2,    1, 1, 1,  7, 1984,
 7, 1, 7, 31, 1,  7,  8, 2112,
 8, 2, 1,  1, 1, 33,  2,    1, 1  1,  8, 2240,
 8, 1, 7, 35, 1,  7,  9, 2368,
 9, 2, 1,  1, 1, 37,  2,    1, 1, 1,  9, 2496,
 9, 1, 7, 39, 1,  7, 10, 2624,
10, 2, 1,  1, 1, 41,  2,    1, 1, 1, 10, 2752,
10, 1, 7, 43, 1,  7, 11, 2880,
11, 2, 1,  1, 1, 45,  2,    1, 1, 1, 11, 3008,
11, 1, 7, 47, 1,  7, 12, 3136, …]
```

scf(5*[1;1,1,3,1,1,5,1,1,7,1,1,9,1,1,11,1,1,…]) =

```
· 7, 1, 4, 4, 9, 1, 1, 1, 49,
1, 1, 1, 1, 9, 2, 1, 2, 2, 1, 2, 1, 1, 89,
1, 1,  3, 1, 1, 109,
1, 1,  4, 3, 3,   4, 1, 9,  5, 1,  1, 149,
1, 1,  5, 1, 9,   6, 1, 2,  2, 1,  6,   1, 1, 189,
1, 1,  7, 1, 1, 209,
1, 1,  8, 3, 3,   8, 1, 9,  9, 1,  1, 249,
1, 1,  9, 1, 9,  10, 1, 2,  2, 1, 10,   1, 1, 289,
1, 1, 11, 1, 1, 309,
1, 1, 12, 3, 3,  12, 1, 9, 13, 1,  1, 349,
1, 1, 13, 1, 9,  14, 1, 2,  2, 1, 14,   1, 1, 389,
1, 1, 15, 1, 1, 409,
1, 1, 16, 3, 3,  16, 1, 9, 17, 1,  1, 449,
1, 1, 17, 1, 9,  18, 1, 2,  2, 1, 18,   1, 1, 489,
1, 1, 19, 1, 1, 509,
1, 1, 20, 3, 3,  20, 1, 9, 21, 1,  1, 549,
1, 1, 21, 1, 9,  22, 1, 2,  2, 1, 22,   1, 1, 589,
1, 1, 23, 1, 1, 609,
1, 1, 24, 3, 3,  24, 1, 9, 25, 1,  1, 649,
1, 1, 25, 1, 9,  26, 1, 2,  2, 1, 26,   1, 1, 689,
1, 1, 27, 1, 1, 709,
1, 1, 28, 3, 3,  28, 1, 9, 29, 1,  1, 749,
1, 1, 29, 1, 9,  30, 1, 2,  2, 1, 30,   1, 1, 789,
1, 1, 31, 1, 1, 809,
1, 1, 32, 3, 3,  32, 1, 9, 33, 1,  1, 849,
1, 1, 33, 1, 9,  34, 1, 2,  2, 1, 34,   1, 1, 889,
1, 1, 35, 1, 1, 909,
1, 1, 36, 3, 3,  36, 1, 9, 37, 1,  1, 949,
1, 1, 37, 1, 9,  38, 1, 2,  2, 1, 38,   1, 1, 989,
```

More in Unit ACDG., Appendix 1
Calculated by Dr. Dagmar Schönfeld
with Mathematica®

ACDG.L.2

[1;1,1,2,1,1,3,1,1,5,1,1,8,1,1,13,1,1,21,1,1,
34,1,1,55,1,1,89,1,1,144,1,1,…] = Γ = ?

scf(Γ^2), scf(2Γ), scf($\frac{1}{2}\Gamma$), … ??

ACDG.L.3

L.3.1

A = [3;5,7,9,11,13,15,17,19,21,23,25,…]
= 3.194528055…

$2A = e^2-1$
= 6.389056099…
= [6;2,1,1,3,18,5,1,
1,6,30,8,1,
1,9,42,11,1,
1,12,54,14,1,
1,15,66,17,1, …]

$\frac{1}{2}A = \frac{1}{4}(e^2 - 1)$
= 1.597264025…
= [1; 1, 1, 2, 14, 4, 1,
1, 5, 26, 7, 1,
1, 8, 38, 10, 1,
1, 11, 50, 13, 1,
1, 14, 62, 16, 1, …]

L.3.2

C = [1;2,3,4,5,6,7,8,9,10,11,12,13,14,…]
= 1.433127427…

2C = 2.866254854…

= [2; 1,

6, 2,

10, 3,

14, 4,

18, 5. …]

L.3.3

D = [2;4,6,8,10,12,14,16,18,20,22,24,…]

= 2.240193724…

2D = 4.480387448…

= [4; 2,

12, 4,

20, 6,

28, 8

36, 10, …]

$\frac{1}{2}$D = 1.120096862...

= [1; 8,

3, 16,

5, 24,

7, 32,

9, 40, …]

L.3.4

E = [1;3,5,7,9,11,13,15,17,19,21,23,25,…]

= 1.313035286...

2E = 2.626070571…

= [2; 1, 1, 1, 2, 14, 4, 1,
1, 5, 26, 7, 1,
1, 8, 38, 10, 1,
1, 11, 50, 13, 1,
1, 14, 62, 16, 1, …]

$\frac{1}{2}$E = 0.656517643...

= [0; 1, 1, 1, 10, 3, 1,
1, 4, 22, 6, 1,
1, 7, 34, 9, 1,
1, 10, 46, 12, 1,
1, 13, 58, 15, 1, …]

L.3.5

F = [1;4,7,10,13,16,19,22,25,28,31,…]

= 1.24149572…

2F = 2.482991439…

= [2; 2, 14,
5, 26,
8, 38,
11, 50,
14, 62, …]

$\frac{1}{2}$F = 0.62074786...

= [0; 1, 1, 1, 1, 1, 3, 20, 6, 1, 1, ?, …]

L.3.6

G = [1;5,9,13,17,21,25,29,33,37,41,45,…]
= 1.195688065…

2G = 2.39137613…
= [2;2,1,1,4,26,8,1,1,??,…]

L.3.7

H = [0;4,8,12,16,20,24,28,32,36,40,…]
= 0.242499612…

2H = 0.484999225…
= [0; 2, 16,
6, 32,
10, 48,
14, 64,
18, 80, …]

L.3.8

$\tanh(n^{-1})$ = [0;n,3n,5n,7n,9n,11n,13n,15n,…]
= ?

$\tan(n^{-1})$ = [0;n,-3n,5n,-7n,9n,-11n,13n,-15n,…]
= [0;n-1,1,3n-2,1,5n-2,1,7n-2,1,…]

$scf(2*\tanh(n^{-1}))$ = ?

$scf(2*\tan(n^{-1}))$ = ?

ACDG.L.4

Given

scf(z) =

[1; 1, 1, 2, 1, 1, 3, 1, 1, 4, 1, 1, 5, 1, 1, 6, 1, 1, 7, 1, 1, 8, 1, 1, 9, 1, 1, 10, 1, 1, 11,

1, 1, 12, 1, 1, 13, 1, 1, 14, 1, 1, 15, 1, 1, 16, 1, 1, 17, 1, 1, 18, 1, 1, 19, 1, 1, 20,
1, 1, 21, 1, 1, 22, 1, 1, 23, 1, 1, 24, 1, 1, 25, 1, 1, 26, 1, 1, 27, 1, 1, 28, 1, 1, 29,
1, 1, 30, 1, 1, 31, 1, 1, 32, 1, 1, 33, 1, 1, 34, 1, 1, 35, 1, 1, 36, 1, 1, 37, 1, 1, 38,
1, 1, 39, 1, 1, 40, 1, 1, 41, 1, 1, 42, 1, 1, 43, 1, 1, 44, 1, 1, 45, 1, 1, 46, 1, 1, 47,
1, 1, 48, 1, 1, 49, 1, 1, 50, 1, 1, 51, 1, 1, 52, 1, 1, 53, 1, 1, 54, 1, 1, 55, 1, 1, 56,
1, 1, 57, 1, 1, 58, 1, 1, 59, 1, 1, 60, 1, 1, 61, 1, 1, 62, 1, 1, 63, 1, 1, 64, 1, 1, 65,
1, 1, 66, 1, 1, 67, 1, 1, 68, 1, 1, 69, 1, 1, 70, 1, 1, 71, 1, 1, 72, 1, 1, 73, 1, 1, 74,
1, 1, 75, 1, 1, 76, 1, 1, 77, 1, 1, 78, 1, 1, 79, 1, 1, 80, 1, 1, 81, 1, 1, 82, 1, 1, 83,
1, 1, 84, 1, 1, 85, 1, 1, 86, 1, 1, 87, 1, 1, 88, 1, 1, 89, 1, 1, 90, 1, 1, 91, 1, 1, 92,
1, 1, 93, 1, 1, 94, 1, 1, 95, 1, 1, 96, 1, 1, 97, 1, 1, 98, 1, 1, 99, 1, 1, 100, 1, 1, …]

$z = 1.581653058805267067671183634335844346994300866215 4\ldots$

Analyze and discuss the

$$\begin{cases} \text{total} \\ \text{dynamic} \end{cases} \text{frequency of small numbers}$$

in the scf representation of

**1 z^2

**2 2*z

**3 e*z

**4 z/e^2 .

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

**1

$z^2 = 2.501626398428057604826096117729430663601637358788 9\ldots$

$scf(z^2) =$

[2, 1, 1, 153, 4, 1, 2, 11, 1, 46, 1, 1, 7, 4, 67, 2, 2, 8, 6, 7, 2, 1, 1, 5, 7, 4, 1, 8, 1, 1,
6, 1, 3, 1, 2, 3, 1, 1, 2, 1, 5, 1, 1, 2, 1, 4, 1, 1, 1, 2, 5, 1, 2, 13, 2, 1, 1, 7, 2,
5, 1, 4, 1, 57, 2, 1, 2, 4, 1, 6, 1, 167, 5, 1, 2, 1, 1, 4, 1, 8, 3, 5, 1, 22, 1, 1, 4,
2, 12, 7, 18, 7, 1, 2, 1, 1, 5, 2, 1, 2, 1, 3, 1, 3, 1, 2, 5, 1, 1, 7, 2, 2, 11, 1, 5, 1,
1, 3, 1, 5, 25, 1, 1, 1, 11, 1, 12, 1, 1, 8, 3, 1, 1, 1, 10, 2, 1, 1, 7, 2, 2, 1, 1, 25,
1, 3, 2, 16, 2, 1, 36, 14, 1, 3, 2, 1, 17, 1, 1, 1, 2, 4, 1, 3, 1, 1, 1, 2, 1, 5, 5, 3,
1, 2, 1, 3, 1, 11, 2, 4, 1, 1, 157, 2, 4, 8, 1, 4, 14, 1, 1, 1, 5, 1, 2, 5, 1, 2, 1, 3,
8, 2, 12, 4, 2, 1, 2, 1, 5, 2, 3, 1, 1, 2, 1, 2, 5, 1, 6, 1, 5, 1, 7, 1, 3, 12, 2, 1, 1,
1, 9, 1, 2, 6, 3, 1, 14, 3, 3, 1, 2, 2, 1, 2, 2, 4, 1, 1, 2, 2, 1, 4, 2, 1, 12, 1, 4, 1,
18, 2, 2, 1, 19, 1, 3, 1, 3, 2, 12, 2, 4, 1, 3, 2, 9, 2, 1, 5, 4, 8, 1, 1, 1, 16, 11, 2,
1, 1, 9, 7, 2, 8, 1, 2, 7, 2, 1, 2, 1, 2, 2, 1, 3, 53, 1, 1, 5, 1, 2, 18, 1, 9, 1, 444,
8, 1, 1, 2, 1, 2, 1, 1, 2, 6, 6, 5, 24, 2, 6, 56, 1, 2, 1, 3, 2, 3, 17, 1, 1, 1, 3149,
1, 16, 1, 11, 183, 2, 3, 5, 5, 16, 1, 1, 1, 6, 1, 21, 8, 4, 1, 5, 1, 56, 2, 25, 1, 2,
2, 1, 3, 1, 1, 1, 1, 15, 1, 3, 1, 2, 1258, 1, 1, 1, 1, 5, 2, 2, 41, 3, 15, 4, 1, 2, 2,
1, 7, 11, 19, 2, 8, 3, 5, 1, 25, 6, 3, 3, 1, 1, 3, 1, 1, 1, 1, 1, 6, 4, 2, 1, 2, 1, 12,
1, 2, 1, 1, 6, 2, 1, 22, 3, 12, 1, 1, 3, 62, 15, 4, 2, 1, 2, 3, 3, 2, 11, 11, 1, 1, 1,
3, 1, 11, 6, 10, 1, 6, 2, 2, 2, 6, 2, 5, 1, 66, 2, 2, 6, 3, 1, 27, 1, 1, 3, 1, 2001, 4,
1, 3, 1, 1, 10, 3, 4, 7, 23, 1, 2, 3, 1, 10, 1, 1, 53, 1, 2, 1, 3, 3, 1, 10, 18, 3, 1,
2, 2, 1, 1, 4, 39, 1, 46, 8, 2, 1, 34, 1, 6, 2, 2, 4, 60, 4, 5, 288, 8, 7, 1, 4, 2, 2,
2, 3, 13, 11, 4, 1, 1, 1, 1, 1, 4, 1, 5, 3, 1, 1, 1, 3, 1, 2, 6, 1, 1, 4, 86, 2, 2, 9,
1, 1, 1, 1, 1, 4, 1, 1, 1, 2, 1, 6915, 3, 1, 2, 71, 1, 1, 53, 2, 5, 1, 1, 1, 3, 2, 13,
1, 14, 2, 3, 7, 20, 1, 2, 10, 2, 6, 1, 3, 1, 1, 1, 2, 1, 2, 8, 1, 2, 1, 2, 28, 3, 2, 1,

2, 1, 5, 10, 2, 8, 1, 7, 1, 4, 1, 3, 1, 5, 1, 3, 3, 1, 1, 1, 6, 1, 1, 2, 5, 1, 5, 1, 2,
1, 3, 1, 1, 3, 4, 2, 2, 4, 16, 1, 33, 9, 1, 5, 1, 2, 1, 2, 12, 12, 4, 2, 4, 1, 1, 2, 1,
3, 14, 1, 2, 1, 1, 9, 7, 1, 1, 1, 3, 2, 6, 3, 1, 7, 81, 1, 4, 9, 8, 1, 1, 5, 1, 10, 1,
42, 6, 1, 9, 1, 1, 22, 10, 1, 1, 20, 5, 1, 2, 2, 3, 1, 2, 5, 2, 6, 3, 1, 4, 1, 2, 1, 3, …]

**2

2*z = 3.163306116…

scf(2*z) = [3;6,8,10,12,14,16,18,20,…]

**3

scf(e*z) =

[4; 3, 2, 1, 15, 2, 1, 1, 13, 47, 20, 7, 1, 2, 484, 7, 7, 2, 1, 1, 2, 1, 68, 1, 10, 3, 1,
2, 5, 2, 1, 3, 9, 2, 1, 1, 2, 1, 5, 3, 2, 1, 6, 1, 1, 1, 2, 1, 23, 1, 5, 4, 6, 4, 5,
2, 57, 1, 1, 7, 10, 11, 21, 2, 5, 1, 10, 1, 39, 1, 7, 10, 1, 10, 9, 1, 4, 1, 1, 1,
1, 30, 1, 4, 32, 3, 3, 10, 2, 5, 1, 6, 1, 1, 32, 10, 3, 1, 3, 1, 2, 2, 34, 1, 1, 1,
1, 108, 1, 1, 133, 6, 4, 3, 3, 3, 7, 8, 4, 5, 5, 1, 44, 1, 1, 1, 1, 22, 5, 2, 1, 10,
1, 2, 4, 92, 5, 1, 1, 12, 14, 80, 4, 3, 1, 2, 4, 2, 2, 1, 3, 4, 3, 1, 1, 2, 3, 4, 3,
6, 1, 7, 1, 1, 1, 3, 1, 1, 1, 4, 2, 1, 1, 3, 2, 1, 4, 1, 4, 2, 2, 3, 3, 2, 1, 10, 1,
1, 13, 9, 1, 1, 3, 1, 2, 6, 1, 4, 3, 2, 1, 6, 3, 1, 1, 8, 1, 5, 1, 6, 1, 39, 4, 2,
21, 4, 8, 2, 4, 2, 3, 1, 1, 1, 2, 5, 1, 40, 1, 1, 3, 1, 3, 2, 16, 2, 108, 55, 1, 2,
7, 2, 3, 3, 5, 10, 1, 1, 2, 1, 3, 1, 41, 4, 1, 6, 1, 110, 25, 176, 2, 3, 19, 1, 1,
4, 1, 3, 2, 3, 11, 1, 1, 1, 2, 2, 9, 11, 1, 1, 12, 11, 7, 1, 13, 1, 1, 1, 16, 1, 1,
1, 11, 3, 4, 15, 1, 2, 6, 4, 1, 1, 7, 2, 4, 1, 15, 1, 24, 1, 1, 3, 3, 1, 1, 1, 3, 1,
3, 1, 3, 1, 2, 1, 1, 66, 5, 4, 1, 3, 5, 1, 2, 2, 1, 4, 3, 17, 1, 14, 1, 15, 6, 24,
1, 71, 1, 1, 1, 4, 1, 5, 9, 5, 3, 1, 3, 1393, 7, 95, 24, 1, 2, 5, 2, 2, 1, 9, 1, 1,
5, 7, 2, 1, 1, 23, 1, 1, 4, 6, 1, 2, 2, 1, 1, 3, 1, 1, 7, 2, 1, 2, 18, 1, 48, 4, 1,
1, 43, 1, 8, 6, 3, 6, 21, 2, 2, 1, 53, 2, 10, 6, 1, 1, 11, 3, 1, 1, 2, 6, 1, 14, 3,
3, 48, 1, 1, 1, 17, 1, 24, 1, 10, 1, 6, 1, 1, 2, 1, 4, 1, 2, 1, 1, 2, 21, 1, 1, 11,
3, 59, 36, 3, 1, 1, 1, 4, 1, 11, 54, 2, 5, 1, 2, 2, 2, 1, 4, 1, 5, 1, 3, 41, 10, 1,
3, 1, 1, 10, 1, 7, 1, 2, 3, 1565, 1, 1, 5, 1, 1, 3, 4, 1, 9, 1, 1, 11, 1, 1, 13, …]

**4

scf(z/e^2) =

[0; 4, 1, 2, 21, 1, 1, 1, 1, 3, 9, 86, 1, 7, 1, 2, 1, 1, 3, 1, 2, 1, 6, 1, 3, 1, 2, 3,
2, 1, 31, 1, 21, 2, 4, 2, 1, 1, 5, 1, 15, 1, 15, 10, 2, 2, 1, 3, 1, 1, 2, 21, 5,
1, 5, 1, 36, 1, 2, 1, 69, 3, 1, 1, 2, 1, 11, 1, 1, 6, 3, 3, 4, 7, 1, 1, 3, 1, 1, 1,
73, 1, 11, 1, 6, 1, 3, 1, 7, 14, 1, 1, 1, 2, 5, 2, 3, 9, 1, 5, 9, 1, 1, 3, 2, 6,
1, 3, 1, 2, 3, 1, 3, 1, 1, 54, 1, 13, 1, 34, 2, 2, 1, 6, 1, 1, 2, 17, 10, 1, 10,
1, 26, 17, 81, 1, 3, 1, 3, 2, 1, 17, 1, 1, 2, 2, 1, 2, 1, 1, 1, 2, 1, 4, 1, 1, 2,
2, 14, 3, 4, 4, 1, 2, 2, 2, 3, 14, 1, 1, 2, 1, 2, 754, 10, 2, 1, 7, 1, 1, 38, 1,
298, 1, 2, 1, 6, 1, 2168, 2, 3, 12, 1, 2, 3, 8, 1, 40, 1, 2, 8, 1, 1, 1, 55, 3, 2,
1, 2, 1, 1, 1, 1, 1, 2, 4, 1, 46, 1, 5, 5, 4, 1, 11, 3, 7, 2, 17, 7, 17, 5, 14, 1,
1, 1, 6, 1, 1, 7, 8, 2, 1, 1, 5, 21, 1, 6, 2, 4, 1, 14, 1, 79, 3, 1, 1, 6, 1, 1,
1, 8, 1, 1, 1, 1, 5, 2, 2, 15, 1, 2, 29, 3, 26, 1, 1, 11, 1, 1, 2, 7, 4, 1, 5, 2,

References to be considered

[1] https://en.wikipedia.org/wiki/Zipf%27s_law

[2] https://en.wikipedia.org/wiki/Benford%27s_law

[3] https://en.wikipedia.org/wiki/Noise_(electronics)
[4] https://de.wikipedia.org/wiki/Rauschen_(Physik)
[5] https://en.wikipedia.org/wiki/Temperature
[6] http://www.faz.net/aktuell/finanzen/aktien/charttechnik-training-mit-45-grad-linien-liegen-chartisten-oft-richtig-172946.html

ACDG.L.5

scf(e) =
[2;1,2,1,1,4,1,1,6,1,1,8,1,1,10,1,1,12,1,1,…]

scf(2e) =

```
[ 5; 2, 3,                                                                2,  3, 1,
  2, 1, 3,  4, 3, 1,  4, 1, 3,  6, 3, 1,  6, 1, 3,  8, 3, 1,  8, 1, 3, 10, 3, 1,
 10, 1, 3, 12, 3, 1, 12, 1, 3, 14, 3, 1, 14, 1, 3, 16, 3, 1, 16, 1, 3, 18, 3, 1,
 18, 1, 3, 20, 3, 1, 20, 1, 3, 22, 3, 1, 22, 1, 3, 24, 3, 1, 24, 1, 3, 26, 3, 1,
 26, 1, 3, 28, 3, 1, 28, 1, 3, 30, 3, 1, 30, 1, 3, 32, 3, 1, 32, 1, 3, 34, 3, 1,
 34, 1, 3, 36, 3, 1, 36, 1, 3, 38, 3, 1, 38, 1, 3, 40, 3, 1, 40, 1, 3, 42, 3, 1,
 42, 1, 3, 44, 3, 1, 44, 1, 3, 46, 3, 1, 46, 1, 3, 48, 3, 1, 48, 1, 3, 50, 3, 1,
 50, 1, 3, 52, 3, 1, 52, 1, 3, 54, 3, 1, 54, 1, 3, 56, 3, 1, 56, 1, 3, 58, 3, 1,
 58, 1, 3, 60, 3, 1, 60, 1, 3, 62, 3, 1, 62, 1, 3, 64, 3, 1, 64, 1, 3, 66, 3, 1,
 66, 1, 3, 68, 3, 1, 68, 1, 3, 70, 3, 1, 70, 1, 3, 72, 3, 1, 72, 1, 3, 74, 3, 1,
 74, 1, 3, 76, 3, 1, 76, 1, 3, 78, 3, 1, 78, 1, 3, 80, 3, 1, 80, 1, 3, 82, 3, 1,
 82, 1, 3, 84, 3, 1, 84, 1, 3, 86, 3, 1, 86, 1, 3, 88, 3, 1, 88, 1, 3, 90, 3, 1,
 90, 1, 3, 92, 3, 1, 92, 1, 3, 94, 3, 1, 94, 1, 3, 96, 3, 1, 96, 1, 3, 98, 3, 1, …]
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scf(e^2) =
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12,54,14,1,1,15,66,17,1,1,18,78,20,1,1,…]

To be continued.
26.10.2017 EPSnoct DSkalcal

Unit ACDG., Appendix 1

Calculated by Dr. Dagmar Schönfeld
with Mathematica®

Add here ACDG_171017_3

In[101]:=
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scf = {1, 1, 1, 2, 1, 1};
Table[{scf = Append[scf, i]; scf = Append[scf, 1]; scf = Append[scf, 1];},
 {i, 3, 100}]; wert = FromContinuedFraction[scf]; Print[N[wert, 50]];
Print[ContinuedFraction[wert]]; Print["Length[scf]=", Length[scf]];
Print["scf von 2*wert :\n", ContinuedFraction[2 * wert]];
Print["scf von 3*wert :\n", ContinuedFraction[3 * wert]];
Print["scf von 4*wert :\n", ContinuedFraction[4 * wert]];
Print["scf von 5*wert :\n", ContinuedFraction[5 * wert]];
Print["scf von 8*wert :\n", ContinuedFraction[8 * wert]];
Print["scf von 16*wert :\n", ContinuedFraction[16 * wert]];
Print["scf von 32*wert :\n", ContinuedFraction[32 * wert]];
Print["scf von 64*wert :\n", ContinuedFraction[64 * wert]];
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1.581653058805267067671183634335844346994300866215 4
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 1, 1, 12, 1, 1, 13, 1, 1, 14, 1, 1, 15, 1, 1, 16, 1, 1, 17, 1, 1, 18, 1, 1, 19, 1, 1, 20,
 1, 1, 21, 1, 1, 22, 1, 1, 23, 1, 1, 24, 1, 1, 25, 1, 1, 26, 1, 1, 27, 1, 1, 28, 1, 1, 29,
 1, 1, 30, 1, 1, 31, 1, 1, 32, 1, 1, 33, 1, 1, 34, 1, 1, 35, 1, 1, 36, 1, 1, 37, 1, 1, 38,
 1, 1, 39, 1, 1, 40, 1, 1, 41, 1, 1, 42, 1, 1, 43, 1, 1, 44, 1, 1, 45, 1, 1, 46, 1, 1, 47,
 1, 1, 48, 1, 1, 49, 1, 1, 50, 1, 1, 51, 1, 1, 52, 1, 1, 53, 1, 1, 54, 1, 1, 55, 1, 1, 56,
 1, 1, 57, 1, 1, 58, 1, 1, 59, 1, 1, 60, 1, 1, 61, 1, 1, 62, 1, 1, 63, 1, 1, 64, 1, 1, 65,
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 1, 1, 75, 1, 1, 76, 1, 1, 77, 1, 1, 78, 1, 1, 79, 1, 1, 80, 1, 1, 81, 1, 1, 82, 1, 1, 83,
 1, 1, 84, 1, 1, 85, 1, 1, 86, 1, 1, 87, 1, 1, 88, 1, 1, 89, 1, 1, 90, 1, 1, 91, 1, 1,
 92, 1, 1, 93, 1, 1, 94, 1, 1, 95, 1, 1, 96, 1, 1, 97, 1, 1, 98, 1, 1, 99, 1, 1, 100, 2}
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Length[scf]=300
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scf von 2*wert :
{3, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48,
  50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94,
  96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130,
  132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166,
  168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202}
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scf von 3*wert :
{4, 1, 2, 1, 11, 1, 1, 1, 5, 1, 1, 5, 1, 1, 1, 1, 23, 1, 1, 2, 1, 1, 29, 1, 1, 3, 5, 1, 3, 5,
  1, 3, 1, 1, 41, 1, 1, 4, 1, 1, 47, 1, 1, 5, 5, 1, 5, 5, 1, 5, 1, 1, 59, 1, 1, 6, 1, 1, 65,
  1, 1, 7, 5, 1, 7, 5, 1, 7, 1, 1, 77, 1, 1, 8, 1, 1, 83, 1, 1, 9, 5, 1, 9, 5, 1, 9, 1, 1, 95,
  1, 1, 10, 1, 1, 101, 1, 1, 11, 5, 1, 11, 5, 1, 11, 1, 1, 113, 1, 1, 12, 1, 1, 119, 1, 1,
  13, 5, 1, 13, 5, 1, 13, 1, 1, 131, 1, 1, 14, 1, 1, 137, 1, 1, 15, 5, 1, 15, 5, 1, 15, 1,
  1, 149, 1, 1, 16, 1, 1, 155, 1, 1, 17, 5, 1, 17, 5, 1, 17, 1, 1, 167, 1, 1, 18, 1, 1, 173,
  1, 1, 19, 5, 1, 19, 5, 1, 19, 1, 1, 185, 1, 1, 20, 1, 1, 191, 1, 1, 21, 5, 1, 21, 5, 1,
  21, 1, 1, 203, 1, 1, 22, 1, 1, 209, 1, 1, 23, 5, 1, 23, 5, 1, 23, 1, 1, 221, 1, 1, 24, 1,
  1, 227, 1, 1, 25, 5, 1, 25, 5, 1, 25, 1, 1, 239, 1, 1, 26, 1, 1, 245, 1, 1, 27, 5, 1, 27,
  5, 1, 27, 1, 1, 257, 1, 1, 28, 1, 1, 263, 1, 1, 29, 5, 1, 29, 5, 1, 29, 1, 1, 275, 1, 1,
  30, 1, 1, 281, 1, 1, 31, 5, 1, 31, 5, 1, 31, 1, 1, 293, 1, 1, 32, 1, 1, 299, 1, 1, 33, 6}
```

```
scf von 4*wert :
{6, 3, 16, 5, 24, 7, 32, 9, 40, 11, 48, 13, 56, 15, 64, 17, 72, 19, 80, 21, 88, 23, 96, 25,
  104, 27, 112, 29, 120, 31, 128, 33, 136, 35, 144, 37, 152, 39, 160, 41, 168, 43, 176,
  45, 184, 47, 192, 49, 200, 51, 208, 53, 216, 55, 224, 57, 232, 59, 240, 61, 248, 63,
  256, 65, 264, 67, 272, 69, 280, 71, 288, 73, 296, 75, 304, 77, 312, 79, 320, 81, 328,
  83, 336, 85, 344, 87, 352, 89, 360, 91, 368, 93, 376, 95, 384, 97, 392, 99, 400, 101}
```

scf von 5*wert :

{7, 1, 9, 1, 9, 9, 1, 9, 2, 1, 39, 1, 1, 1, 3, 3, 1, 1, 2, 2, 1, 1, 1, 1, 59, 1, 1,
2, 9, 1, 1, 1, 9, 2, 1, 9, 3, 9, 1, 2, 1, 1, 89, 1, 1, 3, 3, 3, 3, 1, 2, 2, 1, 3, 1,
1, 109, 1, 1, 4, 9, 1, 3, 1, 9, 4, 1, 9, 5, 9, 1, 4, 1, 1, 139, 1, 1, 5, 3, 3, 5, 1,
2, 2, 1, 5, 1, 1, 159, 1, 1, 6, 9, 1, 5, 1, 9, 6, 1, 9, 7, 9, 1, 6, 1, 1, 189, 1, 1,
7, 3, 3, 7, 1, 2, 2, 1, 7, 1, 1, 209, 1, 1, 8, 9, 1, 7, 1, 9, 8, 1, 9, 9, 9, 1, 8,
1, 1, 239, 1, 1, 9, 3, 3, 9, 1, 2, 2, 1, 9, 1, 1, 259, 1, 1, 10, 9, 1, 9, 1, 9, 10,
1, 9, 11, 9, 1, 10, 1, 1, 289, 1, 1, 11, 3, 3, 11, 1, 2, 2, 1, 11, 1, 1, 309, 1, 1,
12, 9, 1, 11, 1, 9, 12, 1, 9, 13, 9, 1, 12, 1, 1, 339, 1, 1, 13, 3, 3, 13, 1, 2, 2,
1, 13, 1, 1, 359, 1, 1, 14, 9, 1, 13, 1, 9, 14, 1, 9, 15, 9, 1, 14, 1, 1, 389, 1,
1, 15, 3, 3, 15, 1, 2, 2, 1, 15, 1, 1, 409, 1, 1, 16, 9, 1, 15, 1, 9, 16, 1, 9, 17,
9, 1, 16, 1, 1, 439, 1, 1, 17, 3, 3, 17, 1, 2, 2, 1, 17, 1, 1, 459, 1, 1, 18, 9, 1,
17, 1, 9, 18, 1, 9, 19, 9, 1, 18, 1, 1, 489, 1, 1, 19, 3, 3, 19, 1, 2, 2, 1, 19, 2}

scf von 8*wert :

{12, 1, 1, 1, 7, 1, 1, 2, 48, 3, 1, 1, 15, 1, 1, 4, 80, 5, 1, 1, 23, 1, 1, 6, 112, 7, 1, 1,
31, 1, 1, 8, 144, 9, 1, 1, 39, 1, 1, 10, 176, 11, 1, 1, 47, 1, 1, 12, 208, 13, 1, 1, 55, 1,
1, 14, 240, 15, 1, 1, 63, 1, 1, 16, 272, 17, 1, 1, 71, 1, 1, 18, 304, 19, 1, 1, 79, 1, 1,
20, 336, 21, 1, 1, 87, 1, 1, 22, 368, 23, 1, 1, 95, 1, 1, 24, 400, 25, 1, 1, 103, 1, 1, 26,
432, 27, 1, 1, 111, 1, 1, 28, 464, 29, 1, 1, 119, 1, 1, 30, 496, 31, 1, 1, 127, 1, 1, 32,
528, 33, 1, 1, 135, 1, 1, 34, 560, 35, 1, 1, 143, 1, 1, 36, 592, 37, 1, 1, 151, 1, 1, 38,
624, 39, 1, 1, 159, 1, 1, 40, 656, 41, 1, 1, 167, 1, 1, 42, 688, 43, 1, 1, 175, 1, 1, 44,
720, 45, 1, 1, 183, 1, 1, 46, 752, 47, 1, 1, 191, 1, 1, 48, 784, 49, 1, 1, 199, 1, 1, 50}

scf von 16*wert :

{25, 3, 3, 1, 3, 1, 96, 1, 1, 3, 7, 1, 3, 2, 160, 2, 1, 3, 11, 1, 3, 3, 224, 3, 1, 3, 15, 1,
3, 4, 288, 4, 1, 3, 19, 1, 3, 5, 352, 5, 1, 3, 23, 1, 3, 6, 416, 6, 1, 3, 27, 1, 3, 7, 480,
7, 1, 3, 31, 1, 3, 8, 544, 8, 1, 3, 35, 1, 3, 9, 608, 9, 1, 3, 39, 1, 3, 10, 672, 10, 1,
3, 43, 1, 3, 11, 736, 11, 1, 3, 47, 1, 3, 12, 800, 12, 1, 3, 51, 1, 3, 13, 864, 13, 1,
3, 55, 1, 3, 14, 928, 14, 1, 3, 59, 1, 3, 15, 992, 15, 1, 3, 63, 1, 3, 16, 1056, 16, 1,
3, 67, 1, 3, 17, 1120, 17, 1, 3, 71, 1, 3, 18, 1184, 18, 1, 3, 75, 1, 3, 19, 1248, 19,
1, 3, 79, 1, 3, 20, 1312, 20, 1, 3, 83, 1, 3, 21, 1376, 21, 1, 3, 87, 1, 3, 22, 1440,
22, 1, 3, 91, 1, 3, 23, 1504, 23, 1, 3, 95, 1, 3, 24, 1568, 24, 1, 3, 99, 1, 3, 25}

scf von 32*wert :

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3, 832, 3, 2, 1, 1, 1, 13, 2, 1, 1, 1, 3, 960, 3, 1, 7, 15, 1, 7, 4, 1088, 4, 2, 1,
1, 1, 17, 2, 1, 1, 1, 4, 1216, 4, 1, 7, 19, 1, 7, 5, 1344, 5, 2, 1, 1, 1, 21, 2, 1,
1, 1, 5, 1472, 5, 1, 7, 23, 1, 7, 6, 1600, 6, 2, 1, 1, 1, 25, 2, 1, 1, 1, 6, 1728,
6, 1, 7, 27, 1, 7, 7, 1856, 7, 2, 1, 1, 1, 29, 2, 1, 1, 1, 7, 1984, 7, 1, 7, 31, 1,
7, 8, 2112, 8, 2, 1, 1, 1, 33, 2, 1, 1, 1, 8, 2240, 8, 1, 7, 35, 1, 7, 9, 2368, 9,
2, 1, 1, 1, 37, 2, 1, 1, 1, 9, 2496, 9, 1, 7, 39, 1, 7, 10, 2624, 10, 2, 1, 1, 1,
41, 2, 1, 1, 1, 10, 2752, 10, 1, 7, 43, 1, 7, 11, 2880, 11, 2, 1, 1, 1, 45, 2, 1,
1, 1, 11, 3008, 11, 1, 7, 47, 1, 7, 12, 3136, 12, 2, 1, 1, 1, 49, 2, 1, 1, 1, 12}

scf von 64*wert :

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1, 2, 4, 1, 1, 1920, 1, 1, 15, 7, 1, 15, 2, 2176, 2, 5, 3, 8, 1, 2, 4, 1, 1, 1, 1,
607, 1, 1, 1, 1, 15, 9, 1, 15, 2, 1, 1, 671, 1, 1, 2, 5, 3, 10, 1, 2, 4, 1, 2, 2944,
2, 1, 15, 11, 1, 15, 3, 3200, 3, 5, 3, 12, 1, 2, 4, 1, 2, 1, 1, 863, 1, 1, 2, 1, 15,
13, 1, 15, 3, 1, 1, 927, 1, 1, 3, 5, 3, 14, 1, 2, 4, 1, 3, 3968, 3, 1, 15, 15, 1, 15,
4, 4224, 4, 5, 3, 16, 1, 2, 4, 1, 3, 1, 1, 1119, 1, 1, 3, 1, 15, 17, 1, 15, 4, 1, 1,
1183, 1, 1, 4, 5, 3, 18, 1, 2, 4, 1, 4, 4992, 4, 1, 15, 19, 1, 15, 5, 5248, 5, 5, 3,
20, 1, 2, 4, 1, 4, 1, 1, 1375, 1, 1, 4, 1, 15, 21, 1, 15, 5, 1, 1, 1439, 1, 1, 5, 5, 3,
22, 1, 2, 4, 1, 5, 6016, 5, 1, 15, 23, 1, 15, 6, 6272, 6, 5, 3, 24, 1, 2, 4, 1, 5, 2}

In[112]:=
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Table[{scf = Append[scf, i]; scf = Append[scf, 1]; scf = Append[scf, 1];},
 {i, 5, 200, 2}]; wert = FromContinuedFraction[scf]; Print[N[wert, 50]];
Print[ContinuedFraction[wert]]; Print["Length[scf]=", Length[scf]];
Print["scf von 2*wert :\n", ContinuedFraction[2 * wert]];
Print["scf von 3*wert :\n", ContinuedFraction[3 * wert]];
Print["scf von 4*wert :\n", ContinuedFraction[4 * wert]];
Print["scf von 5*wert :\n", ContinuedFraction[5 * wert]];
Print["scf von 8*wert :\n", ContinuedFraction[8 * wert]];
Print["scf von 16*wert :\n", ContinuedFraction[16 * wert]];
Print["scf von 32*wert :\n", ContinuedFraction[32 * wert]];
Print["scf von 64*wert :\n", ContinuedFraction[64 * wert]];
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Length[scf]=300

scf von 2*wert :
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  148, 152, 156, 160, 164, 168, 172, 176, 180, 184, 188, 192, 196, 200, 204, 208,
  212, 216, 220, 224, 228, 232, 236, 240, 244, 248, 252, 256, 260, 264, 268, 272,
  276, 280, 284, 288, 292, 296, 300, 304, 308, 312, 316, 320, 324, 328, 332, 336,
  340, 344, 348, 352, 356, 360, 364, 368, 372, 376, 380, 384, 388, 392, 396, 400}

scf von 3*wert :
{4, 1, 2, 5, 1, 1, 5, 2, 1, 1, 29, 1, 1, 3, 1, 1, 41, 1, 1, 4, 1, 5, 5, 1, 5, 6, 1, 1,
  65, 1, 1, 7, 1, 1, 77, 1, 1, 8, 1, 5, 9, 1, 5, 10, 1, 1, 101, 1, 1, 11, 1, 1, 113,
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  5, 18, 1, 1, 173, 1, 1, 19, 1, 1, 185, 1, 1, 20, 1, 5, 21, 1, 5, 22, 1, 1, 209, 1,
  1, 23, 1, 1, 221, 1, 1, 24, 1, 5, 25, 1, 5, 26, 1, 1, 245, 1, 1, 27, 1, 1, 257, 1,
  1, 28, 1, 5, 29, 1, 5, 30, 1, 1, 281, 1, 1, 31, 1, 1, 293, 1, 1, 32, 1, 5, 33, 1, 5,
  34, 1, 1, 317, 1, 1, 35, 1, 1, 329, 1, 1, 36, 1, 5, 37, 1, 5, 38, 1, 1, 353, 1, 1,
  39, 1, 1, 365, 1, 1, 40, 1, 5, 41, 1, 5, 42, 1, 1, 389, 1, 1, 43, 1, 1, 401, 1, 1,
  44, 1, 5, 45, 1, 5, 46, 1, 1, 425, 1, 1, 47, 1, 1, 437, 1, 1, 48, 1, 5, 49, 1, 5, 50,
  1, 1, 461, 1, 1, 51, 1, 1, 473, 1, 1, 52, 1, 5, 53, 1, 5, 54, 1, 1, 497, 1, 1, 55,
  1, 1, 509, 1, 1, 56, 1, 5, 57, 1, 5, 58, 1, 1, 533, 1, 1, 59, 1, 1, 545, 1, 1, 60,
  1, 5, 61, 1, 5, 62, 1, 1, 569, 1, 1, 63, 1, 1, 581, 1, 1, 64, 1, 5, 65, 1, 5, 66, 2}

scf von 4*wert :
{6, 4, 24, 8, 40, 12, 56, 16, 72, 20, 88, 24, 104, 28, 120, 32, 136, 36,
  152, 40, 168, 44, 184, 48, 200, 52, 216, 56, 232, 60, 248, 64, 264, 68, 280,
  72, 296, 76, 312, 80, 328, 84, 344, 88, 360, 92, 376, 96, 392, 100, 408, 104,
  424, 108, 440, 112, 456, 116, 472, 120, 488, 124, 504, 128, 520, 132, 536, 136,
  552, 140, 568, 144, 584, 148, 600, 152, 616, 156, 632, 160, 648, 164, 664, 168,
  680, 172, 696, 176, 712, 180, 728, 184, 744, 188, 760, 192, 776, 196, 792, 200}
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scf von 5*wert :

{7, 1, 4, 4, 9, 1, 1, 1, 49, 1, 1, 1, 1, 9, 2, 1, 2, 2, 1, 2, 1, 1, 89, 1, 1, 3, 1, 1, 109, 1,
  1, 4, 3, 3, 4, 1, 9, 5, 1, 1, 149, 1, 1, 5, 1, 9, 6, 1, 2, 2, 1, 6, 1, 1, 189, 1, 1, 7,
  1, 1, 209, 1, 1, 8, 3, 3, 8, 1, 9, 9, 1, 1, 249, 1, 1, 9, 1, 9, 10, 1, 2, 2, 1, 10, 1,
  1, 289, 1, 1, 11, 1, 1, 309, 1, 1, 12, 3, 3, 12, 1, 9, 13, 1, 1, 349, 1, 1, 13, 1, 9,
  14, 1, 2, 2, 1, 14, 1, 1, 389, 1, 1, 15, 1, 1, 409, 1, 1, 16, 3, 3, 16, 1, 9, 17, 1, 1,
  449, 1, 1, 17, 1, 9, 18, 1, 2, 2, 1, 18, 1, 1, 489, 1, 1, 19, 1, 1, 509, 1, 1, 20, 3,
  3, 20, 1, 9, 21, 1, 1, 549, 1, 1, 21, 1, 9, 22, 1, 2, 2, 1, 22, 1, 1, 589, 1, 1, 23, 1,
  1, 609, 1, 1, 24, 3, 3, 24, 1, 9, 25, 1, 1, 649, 1, 1, 25, 1, 9, 26, 1, 2, 2, 1, 26, 1,
  1, 689, 1, 1, 27, 1, 1, 709, 1, 1, 28, 3, 3, 28, 1, 9, 29, 1, 1, 749, 1, 1, 29, 1, 9,
  30, 1, 2, 2, 1, 30, 1, 1, 789, 1, 1, 31, 1, 1, 809, 1, 1, 32, 3, 3, 32, 1, 9, 33, 1, 1,
  849, 1, 1, 33, 1, 9, 34, 1, 2, 2, 1, 34, 1, 1, 889, 1, 1, 35, 1, 1, 909, 1, 1, 36, 3,
  3, 36, 1, 9, 37, 1, 1, 949, 1, 1, 37, 1, 9, 38, 1, 2, 2, 1, 38, 1, 1, 989, 1, 1, 39, 2}

scf von 8*wert :

{12, 2, 48, 4, 80, 6, 112, 8, 144, 10, 176, 12, 208, 14, 240, 16, 272, 18,
  304, 20, 336, 22, 368, 24, 400, 26, 432, 28, 464, 30, 496, 32, 528, 34, 560,
  36, 592, 38, 624, 40, 656, 42, 688, 44, 720, 46, 752, 48, 784, 50, 816, 52, 848,
  54, 880, 56, 912, 58, 944, 60, 976, 62, 1008, 64, 1040, 66, 1072, 68, 1104, 70,
  1136, 72, 1168, 74, 1200, 76, 1232, 78, 1264, 80, 1296, 82, 1328, 84, 1360,
  86, 1392, 88, 1424, 90, 1456, 92, 1488, 94, 1520, 96, 1552, 98, 1584, 100}

scf von 16*wert :

{24, 1, 96, 2, 160, 3, 224, 4, 288, 5, 352, 6, 416, 7, 480, 8, 544, 9, 608,
  10, 672, 11, 736, 12, 800, 13, 864, 14, 928, 15, 992, 16, 1056, 17, 1120, 18,
  1184, 19, 1248, 20, 1312, 21, 1376, 22, 1440, 23, 1504, 24, 1568, 25, 1632, 26,
  1696, 27, 1760, 28, 1824, 29, 1888, 30, 1952, 31, 2016, 32, 2080, 33, 2144, 34,
  2208, 35, 2272, 36, 2336, 37, 2400, 38, 2464, 39, 2528, 40, 2592, 41, 2656, 42,
  2720, 43, 2784, 44, 2848, 45, 2912, 46, 2976, 47, 3040, 48, 3104, 49, 3168, 50}

scf von 32*wert :

{49, 1, 47, 1, 2, 1, 79, 1, 1, 1, 448, 2, 576, 2, 1, 1, 175, 1, 1, 2, 1, 1, 207, 1, 1,
  3, 960, 4, 1088, 4, 1, 1, 303, 1, 1, 4, 1, 1, 335, 1, 1, 5, 1472, 6, 1600, 6, 1, 1,
  431, 1, 1, 6, 1, 1, 463, 1, 1, 7, 1984, 8, 2112, 8, 1, 1, 559, 1, 1, 8, 1, 1, 591, 1,
  1, 9, 2496, 10, 2624, 10, 1, 1, 687, 1, 1, 10, 1, 1, 719, 1, 1, 11, 3008, 12, 3136,
  12, 1, 1, 815, 1, 1, 12, 1, 1, 847, 1, 1, 13, 3520, 14, 3648, 14, 1, 1, 943, 1, 1,
  14, 1, 1, 975, 1, 1, 15, 4032, 16, 4160, 16, 1, 1, 1071, 1, 1, 16, 1, 1, 1103, 1,
  1, 17, 4544, 18, 4672, 18, 1, 1, 1199, 1, 1, 18, 1, 1, 1231, 1, 1, 19, 5056, 20,
  5184, 20, 1, 1, 1327, 1, 1, 20, 1, 1, 1359, 1, 1, 21, 5568, 22, 5696, 22, 1, 1,
  1455, 1, 1, 22, 1, 1, 1487, 1, 1, 23, 6080, 24, 6208, 24, 1, 1, 1583, 1, 1, 24, 2}

scf von 64*wert :

{99, 1, 23, 2, 1, 2, 39, 1, 4, 1, 223, 1, 2, 1, 287, 1, 2, 3, 87, 1, 3, 1, 3, 1, 103, 3,
  1, 1, 1920, 2, 2176, 2, 3, 1, 151, 3, 1, 1, 1, 3, 167, 1, 3, 2, 1, 1, 735, 1, 1, 2,
  1, 1, 799, 1, 1, 2, 1, 3, 215, 1, 3, 3, 3, 1, 231, 3, 1, 3, 3968, 4, 4224, 4, 3, 1,
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  1, 3, 5, 3, 1, 359, 3, 1, 5, 6016, 6, 6272, 6, 3, 1, 407, 3, 1, 5, 1, 3, 423, 1, 3,
  6, 1, 1, 1759, 1, 1, 6, 1, 1, 1823, 1, 1, 6, 1, 3, 471, 1, 3, 7, 3, 1, 487, 3, 1, 7,
  8064, 8, 8320, 8, 3, 1, 535, 3, 1, 7, 1, 3, 551, 1, 3, 8, 1, 1, 2271, 1, 1, 8, 1, 1,
  2335, 1, 1, 8, 1, 3, 599, 1, 3, 9, 3, 1, 615, 3, 1, 9, 10112, 10, 10368, 10, 3, 1,
  663, 3, 1, 9, 1, 3, 679, 1, 3, 10, 1, 1, 2783, 1, 1, 10, 1, 1, 2847, 1, 1, 10, 1, 3,
  727, 1, 3, 11, 3, 1, 743, 3, 1, 11, 12160, 12, 12416, 12, 3, 1, 791, 3, 1, 11, 1, 3}

In[50]:= **Table[Fibonacci[n], {n, 20}]**

Out[50]= {1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, 610, 987, 1597, 2584, 4181, 6765}

In[123]:=
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scf = {Fibonacci[1], 1, 1, Fibonacci[2], 1, 1};
Table[{scf = Append[scf, Fibonacci[i]];
  scf = Append[scf, 1]; scf = Append[scf, 1];}, {i, 3, 100}];
wert = FromContinuedFraction[scf]; Print[N[wert, 50]];
Print[ContinuedFraction[wert]]; Print["Length[scf]=", Length[scf]];
Print["scf von 2*wert :\n", ContinuedFraction[2 * wert]];
Print["scf von 3*wert :\n", ContinuedFraction[3 * wert]];
Print["scf von 4*wert :\n", ContinuedFraction[4 * wert]];
Print["scf von 5*wert :\n", ContinuedFraction[5 * wert]];
Print["scf von 8*wert :\n", ContinuedFraction[8 * wert]];
Print["scf von 16*wert :\n", ContinuedFraction[16 * wert]];
Print["scf von 32*wert :\n", ContinuedFraction[32 * wert]];
Print["scf von 64*wert :\n", ContinuedFraction[64 * wert]];
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1.6200970526320895787798476370956507107823919321878
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 1, 1, 4181, 1, 1, 6765, 1, 1, 10946, 1, 1, 17711, 1, 1, 28657, 1, 1, 46368, 1, 1,
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 1, 1, 1836311903, 1, 1, 2971215073, 1, 1, 4807526976, 1, 1, 7778742049, 1, 1,
 12586269025, 1, 1, 20365011074, 1, 1, 32951280099, 1, 1, 53316291173, 1, 1,
 86267571272, 1, 1, 139583862445, 1, 1, 225851433717, 1, 1, 365435296162, 1, 1,
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 1, 1, 117669030460994, 1, 1, 190392490709135, 1, 1, 308061521170129, 1,
 1, 498454011879264, 1, 1, 806515533049393, 1, 1, 1304969544928657, 1, 1,
 2111485077978050, 1, 1, 3416454622906707, 1, 1, 5527939700884757, 1, 1,
 8944394323791464, 1, 1, 14472334024676221, 1, 1, 23416728348467685, 1, 1,
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Length[scf]=300
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scf von 2*wert :
{3, 4, 6, 8, 12, 18, 28, 44, 70, 112, 180, 290, 468, 756, 1222, 1976, 3196, 5170, 8364,
13 532, 21 894, 35 424, 57 316, 92 738, 150 052, 242 788, 392 838, 635 624, 1 028 460,
1 664 082, 2 692 540, 4 356 620, 7 049 158, 11 405 776, 18 454 932, 29 860 706, 48 315 636,
78 176 340, 126 491 974, 204 668 312, 331 160 284, 535 828 594, 866 988 876, 1 402 817 468,
2 269 806 342, 3 672 623 808, 5 942 430 148, 9 615 053 954, 15 557 484 100, 25 172 538 052,
40 730 022 150, 65 902 560 200, 106 632 582 348, 172 535 142 546, 279 167 724 892,
451 702 867 436, 730 870 592 326, 1 182 573 459 760, 1 913 444 052 084, 3 096 017 511 842,
5 009 461 563 924, 8 105 479 075 764, 13 114 940 639 686, 21 220 419 715 448, 34 335 360 355 132,
55 555 780 070 578, 89 891 140 425 708, 145 446 920 496 284, 235 338 060 921 990,
380 784 981 418 272, 616 123 042 340 260, 996 908 023 758 530, 1 613 031 066 098 788,
2 609 939 089 857 316, 4 222 970 155 956 102, 6 832 909 245 813 416, 11 055 879 401 769 516,
17 888 788 647 582 930, 28 944 668 049 352 444, 46 833 456 696 935 372, 75 778 124 746 287 814,
122 611 581 443 223 184, 198 389 706 189 510 996, 321 001 287 632 734 178, 519 390 993 822 245 172,
840 392 281 454 979 348, 1 359 783 275 277 224 518, 2 200 175 556 732 203 864,
3 559 958 832 009 428 380, 5 760 134 388 741 632 242, 9 320 093 220 751 060 620,
15 080 227 609 492 692 860, 24 400 320 830 243 753 478, 39 480 548 439 736 446 336,
63 880 869 269 980 199 812, 103 361 417 709 716 646 146, 167 242 286 979 696 845 956,
270 603 704 689 413 492 100, 437 845 991 669 110 338 054, 708 449 696 358 523 830 152}

scf von 3*wert :
{4, 1, 6, 6, 2, 1, 17, 1, 1, 2, 1, 1, 41, 1, 1, 6, 1, 5, 11, 1, 1, 167, 1, 1, 29, 1, 1,
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5, 1, 2254, 1, 1, 32 840, 1, 1, 5903, 1, 1, 85 973, 1, 1, 15 455, 1, 5, 25 008, 1, 1,
364 181, 1, 1, 65 472, 1, 1, 953 435, 1, 1, 171 409, 1, 1, 2 496 122, 1, 1, 448 756,
5, 1, 726 102, 1, 1, 10 573 736, 1, 1, 1 900 962, 5, 1, 3 075 821, 5, 1, 4 976 783, 1,
1, 72 473 453, 1, 1, 13 029 389, 1, 1, 189 737 960, 1, 1, 34 111 384, 1, 5, 55 193 380,
1, 1, 803 742 890, 1, 1, 144 498 145, 1, 1, 2 104 226 201, 1, 1, 378 301 056, 1, 1,
5 508 935 711, 1, 1, 990 405 024, 5, 1, 1 602 508 991, 1, 1, 23 336 226 149, 1, 1,
4 195 423 008, 5, 1, 6 788 337 024, 5, 1, 10 983 760 032, 1, 1, 159 948 873 521, 1, 1,
28 755 857 090, 1, 1, 418 751 587 337, 1, 1, 75 283 811 238, 1, 5, 121 811 765 387, 1, 1,
1 773 860 189 639, 1, 1, 318 907 342 013, 1, 1, 4 644 026 267 762, 1, 1, 834 910 260 653,
1, 1, 12 158 218 613 645, 1, 1, 2 185 823 439 947, 5, 1, 3 536 736 619 240, 1, 1,
51 503 040 532 697, 1, 1, 9 259 296 678 429, 5, 1, 14 981 856 737 617, 5, 1, 24 241 153 416 046,
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1, 166 151 337 293 087, 1, 5, 268 838 511 016 464, 1, 1, 3 914 908 634 785 973, 1, 1,
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8 640 201 583 112 448 362, 1, 1, 1 553 348 870 125 176 769, 1, 1, 22 620 341 414 239 039 289, 1,
1, 4 066 720 138 373 958 912, 1, 1, 59 220 822 659 604 669 503, 1, 1, 10 646 811 544 996 699 968,
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45 100 617 448 235 582 016, 5, 1, 72 974 331 944 851 723 008, 5, 1, 118 074 949 393 087 305 024, 2}

scf von 4*wert :

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4 539 612 684, 1 836 311 904, 11 884 860 296, 4 807 526 977, 31 114 968 200, 12 586 269 026,
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225 851 433 718, 1 461 741 184 652, 591 286 729 880, 3 826 888 104 168, 1 548 008 755 921,
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27 777 890 035 289, 179 782 280 851 416, 72 723 460 248 142, 470 676 121 843 980,
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1 304 969 544 928 658, 8 445 940 311 912 204, 3 416 454 622 906 708, 22 111 758 803 539 032,
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7 119 917 664 018 856 760, 2 880 067 194 370 816 121, 18 640 186 441 502 121 240,
7 540 113 804 746 346 430, 48 800 641 660 487 506 956, 19 740 274 219 868 223 168,
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scf von 5*wert :

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3, 3, 7 817 633, 1, 2, 2, 1, 12 649 196, 1, 2, 2, 1, 20 466 830, 1, 1, 827 900 709, 1, 1,
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9, 1, 594 243 013, 1, 9, 961 505 395, 3, 3, 1 555 748 409, 1, 2, 2, 1, 2 517 253 804, 1,
1, 101 825 055 374, 1, 1, 6 590 256 019, 1, 1, 266 581 455 869, 1, 1, 17 253 514 254, 9,
1, 27 916 772 488, 3, 3, 45 170 286 743, 3, 3, 73 087 059 232, 3, 3, 118 257 345 975, 1,
2, 2, 1, 191 344 405 207, 1, 2, 2, 1, 309 601 751 183, 1, 1, 12 523 653 909 809, 1, 1,
810 547 907 575, 1, 9, 1 311 494 063 968, 1, 1, 53 051 049 288 619, 1, 1, 3 433 536 035 512,
1, 2, 2, 1, 5 555 578 007 057, 9, 1, 8 989 114 042 569, 1, 9, 14 544 692 049 628, 3,
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1, 189 445 311 865 719 534, 1, 1, 12 261 158 144 322 317, 1, 9, 19 838 970 618 951 099, 1, 1,
802 503 219 081 835 444, 1, 1, 51 939 099 382 224 516, 1, 2, 2, 1, 84 039 228 145 497 934, 9, 1,
135 978 327 527 722 450, 1, 9, 220 017 555 673 220 386, 3, 3, 355 995 883 200 942 837, 1, 2, 2,
1, 576 013 438 874 163 223, 1, 1, 23 300 233 051 877 651 549, 1, 1, 1 508 022 760 949 269 285, 1,
1, 61 000 802 075 609 383 694, 1, 1, 3 948 054 843 973 644 633, 9, 1, 6 388 086 926 998 019 980, 3,
3, 10 336 141 770 971 664 614, 3, 3, 16 724 228 697 969 684 595, 3, 3, 27 060 370 468 941 349 209,
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scf von 8*wert :
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7 465 176, 193 262 544, 19 544 085, 505 967 896, 51 167 078, 1 324 641 136, 133 957 148,
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1 708 227 311 453 354, 44 223 517 607 078 064, 4 472 197 161 895 732, 1, 1, 28 944 668 049 352 443,
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1, 1, 198 389 706 189 510 995, 1, 1, 80 250 321 908 183 544, 2 077 563 975 288 980 688,
210 098 070 363 744 837, 5 439 133 101 108 898 072, 550 043 889 183 050 966,
14 239 835 328 037 713 520, 1 440 033 597 185 408 060, 1, 1, 9 320 093 220 751 060 619, 1, 1,
3 770 056 902 373 173 214, 1, 1, 24 400 320 830 243 753 477, 1, 1, 9 870 137 109 934 111 583, 1,
1, 63 880 869 269 980 199 811, 1, 1, 25 840 354 427 429 161 536, 668 969 147 918 787 383 824,
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scf von 16*wert :
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3, 4427, 1, 3, 28 657, 1, 3, 11 592, 1 200 416, 30 348, 1, 1, 785 675, 1, 1, 79 452, 1, 1,
2 056 919, 1, 1, 208 009, 1, 3, 1 346 269, 1, 3, 544 577, 3, 1, 3 524 578, 3, 1, 1 425 721, 3,
1, 9 227 465, 3, 1, 3 732 587, 1, 1, 96 631 271, 1, 1, 9 772 042, 1 011 935 792, 25 583 539,
2 649 282 272, 66 978 574, 3, 1, 433 494 437, 3, 1, 175 352 182, 1, 3, 1 134 903 170, 1, 3,
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139 583 862 445, 1, 3, 56 462 858 429, 3, 1, 365 435 296 162, 3, 1, 147 821 682 469, 3, 1,
956 722 026 041, 3, 1, 387 002 188 979, 1, 1, 10 018 923 127 847, 1, 1, 1 013 184 884 470,
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1, 44 945 570 212 853, 3, 1, 18 180 865 062 034, 1, 3, 117 669 030 460 994, 1, 3,
47 598 122 677 283, 1, 3, 308 061 521 170 129, 1, 3, 124 613 502 969 816, 12 904 248 528 790 304,
326 242 386 232 164, 1, 1, 8 445 940 311 912 203, 1, 1, 854 113 655 726 676, 1, 1,
22 111 758 803 539 031, 1, 1, 2 236 098 580 947 865, 1, 3, 14 472 334 024 676 221, 1, 3,
5 854 182 087 116 921, 3, 1, 37 889 062 373 143 906, 3, 1, 15 326 447 680 402 897, 3, 1,
99 194 853 094 755 497, 3, 1, 40 125 160 954 091 771, 1, 1, 1 038 781 987 644 490 343,
1, 1, 105 049 035 181 872 418, 10 878 266 202 217 796 144, 275 021 944 591 525 483,
28 479 670 656 075 427 040, 720 016 798 592 704 030, 3, 1, 4 660 046 610 375 530 309, 3, 1,
1 885 028 451 186 586 606, 1, 3, 12 200 160 415 121 876 738, 1, 3, 4 935 068 554 967 055 791, 1,
3, 31 940 434 634 990 099 905, 1, 3, 12 920 177 213 714 580 768, 1 337 938 295 837 574 767 648,
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scf von 32*wert :

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scf von 64*wert :

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4047743168, 6395884, 1, 3, 662320567, 1, 3, 16744643, 3, 5, 108373609, 3, 5,
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Print["scf von 5*wert :\n", ContinuedFraction[5 * wert]];
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Print["scf von 16*wert :\n", ContinuedFraction[16 * wert]];
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  412, 418, 424, 430, 436, 442, 448, 454, 460, 466, 472, 478, 484, 490, 496, 502,
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  113, 464, 119, 488, 125, 512, 131, 536, 137, 560, 143, 584, 149, 608, 155, 632,
  161, 656, 167, 680, 173, 704, 179, 728, 185, 752, 191, 776, 197, 800, 203, 824,
  209, 848, 215, 872, 221, 896, 227, 920, 233, 944, 239, 968, 245, 992, 251, 1016,
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scf von 5*wert :

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3, 3, 11, 1, 1, 309, 1, 1, 12, 1, 1, 339, 1, 1, 13, 1, 2, 2, 1, 14, 9, 1, 14, 1, 1, 399,
1, 1, 16, 9, 1, 16, 3, 3, 17, 1, 1, 459, 1, 1, 18, 1, 1, 489, 1, 1, 19, 1, 2, 2, 1, 20, 9,
1, 20, 1, 1, 549, 1, 1, 22, 9, 1, 22, 3, 3, 23, 1, 1, 609, 1, 1, 24, 1, 1, 639, 1, 1, 25,
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scf von 8*wert :

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38, 1, 1, 159, 1, 1, 41, 688, 44, 1, 1, 183, 1, 1, 47, 784, 50, 1, 1, 207, 1, 1, 53,
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scf von 16*wert :

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19, 3, 1, 79, 3, 1, 20, 1376, 22, 3, 1, 91, 3, 1, 23, 1568, 25, 3, 1, 103, 3, 1, 26,
1760, 28, 3, 1, 115, 3, 1, 29, 1952, 31, 3, 1, 127, 3, 1, 32, 2144, 34, 3, 1, 139,
3, 1, 35, 2336, 37, 3, 1, 151, 3, 1, 38, 2528, 40, 3, 1, 163, 3, 1, 41, 2720, 43,
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3296, 52, 3, 1, 211, 3, 1, 53, 3488, 55, 3, 1, 223, 3, 1, 56, 3680, 58, 3, 1, 235,
3, 1, 59, 3872, 61, 3, 1, 247, 3, 1, 62, 4064, 64, 3, 1, 259, 3, 1, 65, 4256, 67,
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scf von 32*wert :

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16, 15, 1, 3, 1, 1, 1183, 1, 1, 4, 3, 5, 19, 1, 4, 2, 1, 4, 1, 1, 1375, 1, 1, 5, 15,
1, 22, 15, 1, 5, 6272, 6, 3, 5, 25, 1, 4, 2, 1, 6, 7040, 7, 15, 1, 28, 15, 1, 6, 1, 1,
1951, 1, 1, 7, 3, 5, 31, 1, 4, 2, 1, 7, 1, 1, 2143, 1, 1, 8, 15, 1, 34, 15, 1, 8, 9344,
9, 3, 5, 37, 1, 4, 2, 1, 9, 10112, 10, 15, 1, 40, 15, 1, 9, 1, 1, 2719, 1, 1, 10, 3,
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49, 1, 4, 2, 1, 12, 13184, 13, 15, 1, 52, 15, 1, 12, 1, 1, 3487, 1, 1, 13, 3, 5, 55,
1, 4, 2, 1, 13, 1, 1, 3679, 1, 1, 14, 15, 1, 58, 15, 1, 14, 15488, 15, 3, 5, 61, 1, 4,
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In[145]:=
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Table[{zw += 4; scf = Append[scf, zw]; scf = Append[scf, 1]; scf = Append[scf, 1];},
 {i, 1, 98}]; wert = FromContinuedFraction[scf]; Print[N[wert, 50]];
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scf von 2*wert :
{3, 12, 20, 28, 36, 44, 52, 60, 68, 76, 84, 92, 100, 108, 116, 124, 132, 140, 148, 156,
  164, 172, 180, 188, 196, 204, 212, 220, 228, 236, 244, 252, 260, 268, 276, 284,
  292, 300, 308, 316, 324, 332, 340, 348, 356, 364, 372, 380, 388, 396, 404, 412,
  420, 428, 436, 444, 452, 460, 468, 476, 484, 492, 500, 508, 516, 524, 532, 540,
  548, 556, 564, 572, 580, 588, 596, 604, 612, 620, 628, 636, 644, 652, 660, 668,
  676, 684, 692, 700, 708, 716, 724, 732, 740, 748, 756, 764, 772, 780, 788, 796}
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scf von 3*wert :
{4, 1, 1, 1, 1, 1, 29, 1, 1, 4, 5, 1, 5, 5, 1, 6, 1, 1, 77, 1, 1, 9, 1, 1, 101, 1, 1, 12, 5,
  1, 13, 5, 1, 14, 1, 1, 149, 1, 1, 17, 1, 1, 173, 1, 1, 20, 5, 1, 21, 5, 1, 22, 1, 1,
  221, 1, 1, 25, 1, 1, 245, 1, 1, 28, 5, 1, 29, 5, 1, 30, 1, 1, 293, 1, 1, 33, 1, 1, 317,
  1, 1, 36, 5, 1, 37, 5, 1, 38, 1, 1, 365, 1, 1, 41, 1, 1, 389, 1, 1, 44, 5, 1, 45, 5, 1,
  46, 1, 1, 437, 1, 1, 49, 1, 1, 461, 1, 1, 52, 5, 1, 53, 5, 1, 54, 1, 1, 509, 1, 1, 57,
  1, 1, 533, 1, 1, 60, 5, 1, 61, 5, 1, 62, 1, 1, 581, 1, 1, 65, 1, 1, 605, 1, 1, 68, 5,
  1, 69, 5, 1, 70, 1, 1, 653, 1, 1, 73, 1, 1, 677, 1, 1, 76, 5, 1, 77, 5, 1, 78, 1, 1,
  725, 1, 1, 81, 1, 1, 749, 1, 1, 84, 5, 1, 85, 5, 1, 86, 1, 1, 797, 1, 1, 89, 1, 1, 821,
  1, 1, 92, 5, 1, 93, 5, 1, 94, 1, 1, 869, 1, 1, 97, 1, 1, 893, 1, 1, 100, 5, 1, 101, 5,
  1, 102, 1, 1, 941, 1, 1, 105, 1, 1, 965, 1, 1, 108, 5, 1, 109, 5, 1, 110, 1, 1, 1013,
  1, 1, 113, 1, 1, 1037, 1, 1, 116, 5, 1, 117, 5, 1, 118, 1, 1, 1085, 1, 1, 121, 1, 1,
  1109, 1, 1, 124, 5, 1, 125, 5, 1, 126, 1, 1, 1157, 1, 1, 129, 1, 1, 1181, 1, 1, 132, 6}
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scf von 4*wert :
{6, 6, 40, 14, 72, 22, 104, 30, 136, 38, 168, 46, 200, 54, 232, 62, 264, 70, 296, 78, 328,
  86, 360, 94, 392, 102, 424, 110, 456, 118, 488, 126, 520, 134, 552, 142, 584, 150,
  616, 158, 648, 166, 680, 174, 712, 182, 744, 190, 776, 198, 808, 206, 840, 214,
  872, 222, 904, 230, 936, 238, 968, 246, 1000, 254, 1032, 262, 1064, 270, 1096, 278,
  1128, 286, 1160, 294, 1192, 302, 1224, 310, 1256, 318, 1288, 326, 1320, 334, 1352,
  342, 1384, 350, 1416, 358, 1448, 366, 1480, 374, 1512, 382, 1544, 390, 1576, 398}
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scf von 5*wert :

{7, 1, 2, 2, 2, 1, 1, 3, 3, 2, 1, 1, 89, 1, 1, 3, 1, 9, 5, 9, 1, 5, 9, 1, 5, 1, 9, 7, 1, 1,
209, 1, 1, 8, 1, 2, 2, 1, 9, 3, 3, 10, 1, 1, 289, 1, 1, 11, 1, 9, 13, 9, 1, 13, 9, 1, 13,
1, 9, 15, 1, 1, 409, 1, 1, 16, 1, 2, 2, 1, 17, 3, 3, 18, 1, 1, 489, 1, 1, 19, 1, 9, 21,
9, 1, 21, 9, 1, 21, 1, 9, 23, 1, 1, 609, 1, 1, 24, 1, 2, 2, 1, 25, 3, 3, 26, 1, 1, 689,
1, 1, 27, 1, 9, 29, 9, 1, 29, 9, 1, 29, 1, 9, 31, 1, 1, 809, 1, 1, 32, 1, 2, 2, 1, 33, 3,
3, 34, 1, 1, 889, 1, 1, 35, 1, 9, 37, 9, 1, 37, 9, 1, 37, 1, 9, 39, 1, 1, 1009, 1, 1, 40,
1, 2, 2, 1, 41, 3, 3, 42, 1, 1, 1089, 1, 1, 43, 1, 9, 45, 9, 1, 45, 9, 1, 45, 1, 9, 47,
1, 1, 1209, 1, 1, 48, 1, 2, 2, 1, 49, 3, 3, 50, 1, 1, 1289, 1, 1, 51, 1, 9, 53, 9, 1, 53,
9, 1, 53, 1, 9, 55, 1, 1, 1409, 1, 1, 56, 1, 2, 2, 1, 57, 3, 3, 58, 1, 1, 1489, 1, 1, 59,
1, 9, 61, 9, 1, 61, 9, 1, 61, 1, 9, 63, 1, 1, 1609, 1, 1, 64, 1, 2, 2, 1, 65, 3, 3, 66,
1, 1, 1689, 1, 1, 67, 1, 9, 69, 9, 1, 69, 9, 1, 69, 1, 9, 71, 1, 1, 1809, 1, 1, 72, 1,
2, 2, 1, 73, 3, 3, 74, 1, 1, 1889, 1, 1, 75, 1, 9, 77, 9, 1, 77, 9, 1, 77, 1, 9, 79, 2}

scf von 8*wert :

{12, 3, 80, 7, 144, 11, 208, 15, 272, 19, 336, 23, 400, 27, 464, 31, 528, 35, 592, 39,
656, 43, 720, 47, 784, 51, 848, 55, 912, 59, 976, 63, 1040, 67, 1104, 71, 1168, 75,
1232, 79, 1296, 83, 1360, 87, 1424, 91, 1488, 95, 1552, 99, 1616, 103, 1680, 107, 1744,
111, 1808, 115, 1872, 119, 1936, 123, 2000, 127, 2064, 131, 2128, 135, 2192, 139,
2256, 143, 2320, 147, 2384, 151, 2448, 155, 2512, 159, 2576, 163, 2640, 167, 2704,
171, 2768, 175, 2832, 179, 2896, 183, 2960, 187, 3024, 191, 3088, 195, 3152, 199}

scf von 16*wert :

{24, 1, 1, 1, 39, 1, 1, 3, 288, 5, 1, 1, 103, 1, 1, 7, 544, 9, 1, 1, 167, 1, 1, 11, 800, 13,
1, 1, 231, 1, 1, 15, 1056, 17, 1, 1, 295, 1, 1, 19, 1312, 21, 1, 1, 359, 1, 1, 23,
1568, 25, 1, 1, 423, 1, 1, 27, 1824, 29, 1, 1, 487, 1, 1, 31, 2080, 33, 1, 1, 551, 1,
1, 35, 2336, 37, 1, 1, 615, 1, 1, 39, 2592, 41, 1, 1, 679, 1, 1, 43, 2848, 45, 1, 1,
743, 1, 1, 47, 3104, 49, 1, 1, 807, 1, 1, 51, 3360, 53, 1, 1, 871, 1, 1, 55, 3616, 57,
1, 1, 935, 1, 1, 59, 3872, 61, 1, 1, 999, 1, 1, 63, 4128, 65, 1, 1, 1063, 1, 1, 67,
4384, 69, 1, 1, 1127, 1, 1, 71, 4640, 73, 1, 1, 1191, 1, 1, 75, 4896, 77, 1, 1, 1255,
1, 1, 79, 5152, 81, 1, 1, 1319, 1, 1, 83, 5408, 85, 1, 1, 1383, 1, 1, 87, 5664, 89,
1, 1, 1447, 1, 1, 91, 5920, 93, 1, 1, 1511, 1, 1, 95, 6176, 97, 1, 1, 1575, 1, 1, 99}

scf von 32*wert :

{49, 3, 19, 1, 3, 1, 1, 1, 143, 1, 1, 2, 3, 1, 51, 3, 1, 3, 1088, 4, 1, 3, 83, 1, 3,
5, 1, 1, 399, 1, 1, 6, 3, 1, 115, 3, 1, 7, 2112, 8, 1, 3, 147, 1, 3, 9, 1, 1, 655,
1, 1, 10, 3, 1, 179, 3, 1, 11, 3136, 12, 1, 3, 211, 1, 3, 13, 1, 1, 911, 1, 1, 14,
3, 1, 243, 3, 1, 15, 4160, 16, 1, 3, 275, 1, 3, 17, 1, 1, 1167, 1, 1, 18, 3, 1,
307, 3, 1, 19, 5184, 20, 1, 3, 339, 1, 3, 21, 1, 1, 1423, 1, 1, 22, 3, 1, 371, 3,
1, 23, 6208, 24, 1, 3, 403, 1, 3, 25, 1, 1, 1679, 1, 1, 26, 3, 1, 435, 3, 1, 27,
7232, 28, 1, 3, 467, 1, 3, 29, 1, 1, 1935, 1, 1, 30, 3, 1, 499, 3, 1, 31, 8256,
32, 1, 3, 531, 1, 3, 33, 1, 1, 2191, 1, 1, 34, 3, 1, 563, 3, 1, 35, 9280, 36, 1,
3, 595, 1, 3, 37, 1, 1, 2447, 1, 1, 38, 3, 1, 627, 3, 1, 39, 10304, 40, 1, 3, 659,
1, 3, 41, 1, 1, 2703, 1, 1, 42, 3, 1, 691, 3, 1, 43, 11328, 44, 1, 3, 723, 1, 3,
45, 1, 1, 2959, 1, 1, 46, 3, 1, 755, 3, 1, 47, 12352, 48, 1, 3, 787, 1, 3, 49, 2}

scf von 64*wert :

{98, 1, 1, 1, 9, 2, 1, 1, 4, 1, 71, 3, 2, 1, 1, 2, 25, 1, 1, 1, 2, 1, 1, 1, 543, 1, 1,
1, 1, 7, 41, 1, 7, 2, 1, 3, 199, 1, 3, 3, 7, 1, 57, 7, 1, 3, 4224, 4, 2, 1, 1, 1, 73,
2, 1, 1, 1, 4, 3, 1, 327, 3, 1, 4, 1, 1, 1, 2, 89, 1, 1, 1, 2, 5, 1, 1, 1567, 1, 1,
5, 1, 7, 105, 1, 7, 6, 1, 3, 455, 1, 3, 7, 7, 1, 121, 7, 1, 7, 8320, 8, 2, 1, 1, 1,
137, 2, 1, 1, 1, 8, 3, 1, 583, 3, 1, 8, 1, 1, 1, 2, 153, 1, 1, 1, 2, 9, 1, 1, 2591, 1,
1, 9, 1, 7, 169, 1, 7, 10, 1, 3, 711, 1, 3, 11, 7, 1, 185, 7, 1, 11, 12416, 12, 2,
1, 1, 1, 201, 2, 1, 1, 1, 12, 3, 1, 839, 3, 1, 12, 1, 1, 1, 2, 217, 1, 1, 1, 2, 13,
1, 1, 3615, 1, 1, 13, 1, 7, 233, 1, 7, 14, 1, 3, 967, 1, 3, 15, 7, 1, 249, 7, 1, 15,
16512, 16, 2, 1, 1, 1, 265, 2, 1, 1, 1, 16, 3, 1, 1095, 3, 1, 16, 1, 1, 1, 2, 281,
1, 1, 1, 2, 17, 1, 1, 4639, 1, 1, 17, 1, 7, 297, 1, 7, 18, 1, 3, 1223, 1, 3, 19, 7,
1, 313, 7, 1, 19, 20608, 20, 2, 1, 1, 1, 329, 2, 1, 1, 1, 20, 3, 1, 1351, 3, 1, 20,
1, 1, 1, 2, 345, 1, 1, 1, 2, 21, 1, 1, 5663, 1, 1, 21, 1, 7, 361, 1, 7, 22, 1, 3,
1479, 1, 3, 23, 7, 1, 377, 7, 1, 23, 24704, 24, 2, 1, 1, 1, 393, 2, 1, 1, 1, 24, 4}

In[93]:=
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Table[Prime[n], {n, 20}]
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Out[93]=
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In[156]:=
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 {i, 3, 100}]; wert = FromContinuedFraction[scf]; Print[N[wert, 50]];
Print[ContinuedFraction[wert]]; Print["Length[scf]=", Length[scf]];
Print["scf von 2*wert :\n", ContinuedFraction[2 * wert]];
Print["scf von 3*wert :\n", ContinuedFraction[3 * wert]];
Print["scf von 4*wert :\n", ContinuedFraction[4 * wert]];
Print["scf von 5*wert :\n", ContinuedFraction[5 * wert]];
Print["scf von 8*wert :\n", ContinuedFraction[8 * wert]];
Print["scf von 16*wert :\n", ContinuedFraction[16 * wert]];
Print["scf von 32*wert :\n", ContinuedFraction[32 * wert]];
Print["scf von 64*wert :\n", ContinuedFraction[64 * wert]];
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1.561858965833032642439550599149670939353217800073 4
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 1, 283, 1, 1, 293, 1, 1, 307, 1, 1, 311, 1, 1, 313, 1, 1, 317, 1, 1, 331, 1, 1, 337, 1,
 1, 347, 1, 1, 349, 1, 1, 353, 1, 1, 359, 1, 1, 367, 1, 1, 373, 1, 1, 379, 1, 1, 383, 1,
 1, 389, 1, 1, 397, 1, 1, 401, 1, 1, 409, 1, 1, 419, 1, 1, 421, 1, 1, 431, 1, 1, 433, 1,
 1, 439, 1, 1, 443, 1, 1, 449, 1, 1, 457, 1, 1, 461, 1, 1, 463, 1, 1, 467, 1, 1, 479, 1,
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Length[scf]=300
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  160, 168, 180, 196, 204, 208, 216, 220, 228, 256, 264, 276, 280, 300, 304, 316,
  328, 336, 348, 360, 364, 384, 388, 396, 400, 424, 448, 456, 460, 468, 480, 484,
  504, 516, 528, 540, 544, 556, 564, 568, 588, 616, 624, 628, 636, 664, 676, 696,
  700, 708, 720, 736, 748, 760, 768, 780, 796, 804, 820, 840, 844, 864, 868, 880,
  888, 900, 916, 924, 928, 936, 960, 976, 984, 1000, 1008, 1020, 1044, 1048, 1084}
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{4, 1, 2, 5, 1, 1, 5, 2, 1, 1, 35, 1, 1, 4, 5, 1, 5, 5, 1, 5, 1, 5, 7, 1, 5, 9, 1, 5, 10, 1,
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  881, 1, 1, 102, 5, 1, 103, 5, 1, 103, 1, 5, 105, 1, 5, 110, 1, 1, 1013, 1, 1, 115, 1,
  1, 1049, 1, 1, 117, 1, 1, 1079, 1, 1, 122, 5, 1, 123, 1, 5, 126, 1, 1, 1151, 1, 1, 129,
  1, 1, 1193, 1, 1, 133, 1, 1, 1229, 1, 1, 139, 1, 1, 1265, 1, 1, 143, 1, 1, 1301, 1, 1,
  146, 5, 1, 147, 5, 1, 149, 5, 1, 151, 1, 5, 153, 1, 5, 154, 1, 1, 1403, 1, 1, 159, 1, 1,
  1463, 1, 1, 163, 1, 1, 1499, 1, 1, 167, 1, 1, 1529, 1, 1, 173, 1, 1, 1571, 1, 1, 180, 6}
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scf von 4*wert :

{6, 4, 24, 8, 48, 14, 72, 20, 96, 30, 128, 38, 168, 44, 192, 54, 240, 62, 272, 72, 296,
80, 336, 90, 392, 102, 416, 108, 440, 114, 512, 132, 552, 140, 600, 152, 632, 164,
672, 174, 720, 182, 768, 194, 792, 200, 848, 224, 912, 230, 936, 240, 968, 252, 1032,
264, 1080, 272, 1112, 282, 1136, 294, 1232, 312, 1256, 318, 1328, 338, 1392, 350,
1416, 360, 1472, 374, 1520, 384, 1560, 398, 1608, 410, 1680, 422, 1728, 434, 1760,
444, 1800, 458, 1848, 464, 1872, 480, 1952, 492, 2000, 504, 2040, 522, 2096, 542}

scf von 5*wert :

{7, 1, 4, 4, 9, 1, 1, 1, 59, 1, 1, 2, 3, 3, 3, 3, 3, 3, 1, 2, 2, 1, 4, 9, 1, 5, 9, 1, 5, 1, 1,
189, 1, 1, 7, 1, 9, 8, 1, 2, 2, 1, 8, 1, 9, 10, 1, 2, 2, 1, 11, 3, 3, 12, 9, 1, 12, 1,
2, 2, 1, 13, 1, 2, 2, 1, 14, 9, 1, 15, 9, 1, 15, 1, 9, 17, 1, 9, 19, 1, 1, 509, 1, 1,
20, 3, 3, 21, 3, 3, 21, 1, 2, 2, 1, 22, 9, 1, 24, 1, 2, 2, 1, 25, 1, 2, 2, 1, 26, 1, 9,
27, 1, 9, 29, 1, 9, 30, 3, 3, 31, 3, 3, 32, 1, 1, 839, 1, 1, 34, 3, 3, 35, 1, 2, 2, 1,
35, 1, 2, 2, 1, 37, 1, 2, 2, 1, 38, 9, 1, 38, 1, 2, 2, 1, 39, 3, 3, 42, 9, 1, 43, 1, 9,
45, 1, 1, 1149, 1, 1, 46, 3, 3, 47, 1, 2, 2, 1, 47, 1, 2, 2, 1, 49, 1, 2, 2, 1, 50, 1,
9, 52, 1, 2, 2, 1, 53, 3, 3, 54, 9, 1, 54, 1, 2, 2, 1, 55, 1, 2, 2, 1, 56, 9, 1, 57, 1,
9, 61, 1, 1, 1559, 1, 1, 62, 3, 3, 63, 3, 3, 66, 9, 1, 66, 1, 2, 2, 1, 68, 1, 9, 69,
1, 9, 70, 1, 2, 2, 1, 71, 3, 3, 73, 3, 3, 74, 1, 1, 1899, 1, 1, 76, 3, 3, 77, 1, 2, 2,
1, 78, 1, 9, 80, 3, 3, 81, 1, 2, 2, 1, 83, 3, 3, 84, 9, 1, 85, 1, 1, 2169, 1, 1, 87,
1, 1, 2219, 1, 1, 89, 1, 1, 2289, 1, 1, 91, 1, 9, 92, 1, 2, 2, 1, 92, 1, 9, 95, 1, 9,
97, 1, 1, 2459, 1, 1, 99, 1, 1, 2519, 1, 1, 101, 1, 1, 2609, 1, 1, 104, 3, 3, 108, 10}

scf von 8*wert :

{12, 2, 48, 4, 96, 7, 144, 10, 192, 15, 256, 19, 336, 22, 384, 27, 480, 31, 544, 36, 592,
40, 672, 45, 784, 51, 832, 54, 880, 57, 1024, 66, 1104, 70, 1200, 76, 1264, 82, 1344,
87, 1440, 91, 1536, 97, 1584, 100, 1696, 112, 1824, 115, 1872, 120, 1936, 126, 2064,
132, 2160, 136, 2224, 141, 2272, 147, 2464, 156, 2512, 159, 2656, 169, 2784, 175,
2832, 180, 2944, 187, 3040, 192, 3120, 199, 3216, 205, 3360, 211, 3456, 217, 3520,
222, 3600, 229, 3696, 232, 3744, 240, 3904, 246, 4000, 252, 4080, 261, 4192, 271}

scf von 16*wert :

{24, 1, 96, 2, 192, 3, 1, 1, 71, 1, 1, 4, 1, 1, 95, 1, 1, 7, 512, 9, 1, 1, 167, 1, 1, 10, 1,
1, 191, 1, 1, 13, 960, 15, 1, 1, 271, 1, 1, 17, 1, 1, 295, 1, 1, 19, 1, 1, 335, 1, 1,
22, 1568, 25, 1, 1, 415, 1, 1, 26, 1, 1, 439, 1, 1, 28, 2048, 33, 2208, 35, 2400, 38,
2528, 41, 2688, 43, 1, 1, 719, 1, 1, 45, 3072, 48, 1, 1, 791, 1, 1, 49, 1, 1, 847, 1,
1, 55, 1, 1, 911, 1, 1, 57, 3744, 60, 3872, 63, 4128, 66, 4320, 68, 4448, 70, 1, 1,
1135, 1, 1, 73, 4928, 78, 5024, 79, 1, 1, 1327, 1, 1, 84, 5568, 87, 1, 1, 1415, 1, 1,
89, 1, 1, 1471, 1, 1, 93, 6080, 96, 6240, 99, 1, 1, 1607, 1, 1, 102, 6720, 105, 1, 1,
1727, 1, 1, 108, 7040, 111, 7200, 114, 1, 1, 1847, 1, 1, 115, 1, 1, 1871, 1, 1, 119,
1, 1, 1951, 1, 1, 122, 1, 1, 1999, 1, 1, 125, 1, 1, 2039, 1, 1, 130, 8384, 135, 2}

scf von 32*wert :

{49, 1, 47, 1, 2, 1, 95, 1, 1, 1, 3, 1, 35, 3, 1, 1, 1, 3, 47, 1, 3, 3, 1, 1, 255, 1, 1,
4, 3, 1, 83, 3, 1, 4, 1, 3, 95, 1, 3, 6, 1, 1, 479, 1, 1, 7, 3, 1, 135, 3, 1, 8, 3,
1, 147, 3, 1, 9, 3, 1, 167, 3, 1, 10, 1, 1, 783, 1, 1, 12, 3, 1, 207, 3, 1, 12, 1,
3, 219, 1, 3, 14, 4096, 16, 1, 1, 1103, 1, 1, 17, 4800, 19, 5056, 20, 1, 1, 1343,
1, 1, 21, 3, 1, 359, 3, 1, 22, 6144, 24, 3, 1, 395, 3, 1, 24, 3, 1, 423, 3, 1, 27,
3, 1, 455, 3, 1, 28, 7488, 30, 7744, 31, 1, 1, 2063, 1, 1, 32, 1, 1, 2159, 1, 1,
33, 1, 1, 2223, 1, 1, 34, 1, 3, 567, 1, 3, 36, 1, 1, 2463, 1, 1, 38, 1, 1, 2511, 1,
1, 39, 3, 1, 663, 3, 1, 41, 1, 1, 2783, 1, 1, 43, 3, 1, 707, 3, 1, 44, 3, 1, 735, 3,
1, 46, 12160, 48, 12480, 49, 1, 3, 803, 1, 3, 51, 13440, 52, 1, 3, 863, 1, 3, 54,
14080, 55, 1, 1, 3599, 1, 1, 56, 1, 3, 923, 1, 3, 57, 1, 3, 935, 1, 3, 59, 1, 3,
975, 1, 3, 61, 3, 1, 999, 3, 1, 62, 3, 1, 1019, 3, 1, 64, 1, 1, 4191, 1, 1, 67, 4}

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scf von 64*wert :
{99, 1, 23, 2, 1, 2, 47, 1, 4, 1, 1, 2, 17, 1, 1, 1, 3, 7, 23, 1, 7, 1, 1, 3, 127, 1, 3, 2,
  7, 1, 41, 7, 1, 1, 1, 7, 47, 1, 7, 3, 3, 1, 239, 3, 1, 3, 7, 1, 67, 7, 1, 3, 1, 1, 1,
  2, 73, 1, 1, 1, 2, 4, 1, 1, 1, 2, 83, 1, 1, 1, 2, 5, 3, 1, 391, 3, 1, 5, 1, 1, 1, 2,
  103, 1, 1, 1, 2, 6, 2, 1, 1, 1, 109, 2, 1, 1, 1, 6, 1, 1, 2047, 1, 1, 7, 1, 3, 551, 1,
  3, 8, 1, 1, 2399, 1, 1, 9, 10112, 10, 3, 1, 671, 3, 1, 10, 7, 1, 179, 7, 1, 10, 1, 1,
  3071, 1, 1, 11, 1, 1, 1, 2, 197, 1, 1, 1, 2, 12, 7, 1, 211, 7, 1, 13, 7, 1, 227, 7,
  1, 13, 1, 1, 3743, 1, 1, 14, 1, 1, 3871, 1, 1, 15, 3, 1, 1031, 3, 1, 15, 1, 3, 1079,
  1, 3, 16, 1, 3, 1111, 1, 3, 17, 2, 1, 1, 1, 283, 2, 1, 1, 1, 17, 1, 3, 1231, 1, 3,
  19, 3, 1, 1255, 3, 1, 19, 7, 1, 331, 7, 1, 20, 3, 1, 1391, 3, 1, 21, 7, 1, 353, 7,
  1, 21, 1, 1, 1, 2, 367, 1, 1, 1, 2, 23, 24320, 24, 24960, 24, 1, 7, 401, 1, 7, 25,
  1, 1, 6719, 1, 1, 25, 1, 7, 431, 1, 7, 27, 28160, 27, 1, 3, 1799, 1, 3, 28, 2, 1,
  1, 1, 461, 2, 1, 1, 1, 28, 2, 1, 1, 1, 467, 2, 1, 1, 1, 29, 2, 1, 1, 1, 487, 2, 1, 1,
  1, 30, 7, 1, 499, 7, 1, 30, 1, 1, 1, 2, 509, 1, 1, 1, 2, 32, 3, 1, 2095, 3, 1, 33, 8}
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