Unit 15, part 81.14

Aphorisms, advices, anecdotes, brain teasers, curious stories, epigrams, epigraphs, epitaphs, crazy-creative ideas, suggestions and set pieces for thriller and mystery writers, koans, memorabilia, mottos, poems, proverbs, riddles, algorithmics ideas catchment areas, quotations, sayings, slogans, scurrilities, besun, etc., collected for encouragement and the advantage of my students and of myself.
An unconventional challenger, **„Arboretum – Algoretum - Crearetum“.**

In memoriam Pater Frido Pflüger SJ
Das Licht von Pater Frido.
Ein Buch für Fridolin Pflüger SJ und alle Menschen,
die weltweit auf der Flucht sind
jesuitenweltweit Deutschland 2022
ISBN 978-3-00-074193-7

Untersuchen Sie Zusammenhänge zwischen dem
Ternärbaum der Pythagoräischen Tripel [1,2],
dem „Feigenbaum“ [3,4]
und
** mathematischen Konstanten [5,6], insbesondere e und π,
** der Primzahlfolge.

[1] DADG.net, Unit 57
[2] E.P. Stoschek. Abenteuer Algorithmus Teil 2, Kap. 2 Dresden 1997
[3] Teil 3, Kap.
[4] DADG.net, Unit 900
[5] **https**://de.wikipedia.org/wiki/Mathematische_Konstante
[6] **https**://mathworld.wolfram.com/topics/Constants.html

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Für Jonathan

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XXXXXXXXXXX36X36XXXXXXXXXXXXXX

Continued fraction twins, Sandkasten

Fortsetzung von Unit 15, part 81.12, S. 10-16
Teil 2, Fibonacci-Folge
Transformation
„numerator-denominator-symmetric cf → simple cf“

$$\lambda = \cfrac{1}{1+\cfrac{1}{1+\cfrac{2}{2+\cfrac{3}{3+\cfrac{5}{5+\cfrac{8}{8+\cfrac{13}{13+\cfrac{21}{21+\cfrac{34}{34+\cfrac{55}{55+\cfrac{89}{89+\cfrac{144}{144+\cfrac{233}{233+\cfrac{377}{377+\cfrac{610}{610+\cfrac{987}{987+\cdots}}}}}}}}}}}}}}$$

wert(λ) = 0.6322887609044267945201895661 20…
scf(wert(λ)) =
[0; 1, 1, 1, 2, 1, 1, 3, 3, 11, 11, 1, 1, 1, 19, 1, 2, 4, 1, 2, 4, 2, 2, 3, 4, 1, 1, 2, 2, 1, 2, 51, 7, 1, 1, 1, 2, 4, 1, 2, 2, 1, 3, 14, 1, 3, 2, 2, 2, 2, 1, 6, 1, 1, 1, 1, 5, 1, 10, 14, 1, 11, 1, 4, 1, 1, 1, 4, 2, 2, 5, 3, 1, 1, 1, 1, 1, 2, 1, 1, 1, 30, 1, 7, 1, 1, 2, 1, 64, 2, 1, 122, 3, 1, 3, 6, 2, 13, 3, 2, 2, 3, 4, 4, 1, 1, 2, 4, 4, 1, 2, 11, 1, 5, 2, 1, 3, 8, 1, 2201, 2, 1, 1, 1, 10, 2, 12, 1, 1, 3, 1, 1, 5, 3, 1, 3, 11, 54, 1, 6, 1, 5, 2, 1, 3, 1,

38, 4, 10, 6, 1, 2, 2, 4, 46, 30, 9, 3, 1, 7, 6, 6, 2, 10, 2, 2, 2, 1, 1, 120, 37, 1, 4, 1, 3, 1, 1, 11, 1, 6, 3, 1, 1, 23, 3, 1, 1, 1, 1, 5, 8, 1, 3, 6, 2, 1, 77, 1, 1, 1, 1, 2, 43, 1, 1, 1, 1, 1, 1, 1, 190, 1, 1, 2, 1, 43, 10, 3, 5, 2, 2, 4, 1, 3, 2, 1, 1, 1, 3, 2, 1, 8, 1, 8, 12, 1, 4, 2, 3, 2, 4, 1, 1, 2, 2, 3, 1, 8, 5, 1, 23, 2, 1, 2, 5, 1, 2, 2, 2, 1, 2, 2, 1, 3, 1, 4, 2, 55, 4, 1, 3, 1, 4, 4, 5, 1, 1, 8, 1, 4, 4, 1, 14, 1, 1, 3, 9, 64, 2, 10, 1, 1, 1, 3, 1, 4, 256, 1, 1, 5, 1, 2, 1, 1, 3, 1, 3, 7, 3, 3, 2, 5, 1, 3, 1, 1, 1, 3, 1, 40, 1, 13, 1, 2, 1, 2, 1, 1, 1, 2, 1, 4, 1, 1, 2, 1, 2, 11, 1, 2, 1, 2, 3, 76, 1, 35, 1, 22, 1, 5, 2, 2, 5, 2, 1, 1, 182, 1, 1, 1, 1, 82, 1, 22, 12, 7, 1, 1, 5, 1, 5, 2, 13, 2, 3, 3, 4, 1, 1, 4, 1, 1, 1, 20, 1, 2, 19, 2, 14, 1, 3, 3, 3, 1, 1, 1, 1, 2, 3, 1, 2, 1, 4, 1, 14, 4, 2, 1, 1, 161, 1, 2, 3, 1, 3, 691, 1, 2, 6, 3, 7, 3, 3, 4, 5, 3, 1, 1, 1, 7, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 2, 5, 2, 4, 2, 1, 23, 6, 5, 1, 1, 4, 1, 4, 6, 23, 1, 1, 15, 2, 60, 2, …]

Probleme, Analyse

** Finden Sie einen möglichst einfachen zugehörigen Algorithmus für die Transformation λ→scf(wert(λ)) und die korrespondierende Rücktransformation.

** λ ist vollkommen systematisch strukturiert, scf(wert((λ)) ist quasistochastisch (organized/ordered chaos, „Math Jazz“); diskutieren Sie:

**** Die Transformation λ→scf(wert(λ)) könnte sich damit als „Bauelement“ für ein Enigma-artiges-Kryptocodesystem► eignen.

**** In diesem Zusammenhang ist das mögliche Auftreten von Mustern in 2D-Darstellungen von

scf(wert(λ))►► zu untersuchen.
** Die überwiegende Anzahl der Kettenbruchelemente von scf(wert(λ)) sind einstellige Zahlen („Rauschen“?) mit deutlicher Dominanz der 1. Bestimmen und diskutieren Sie die zugehörigen relativen Häufigkeiten. Mehrstellige Zahlen treten singulär auf, mit deutlicher Dominanz der Zweistelligkeit und abnehmenender Häufigkeit mit steigender Stellenzahl.
** Beziehen Sie die folgenden Transformationspaare in die Diskussion ein:

λsn1 (shift im Nenner um eine Position) =

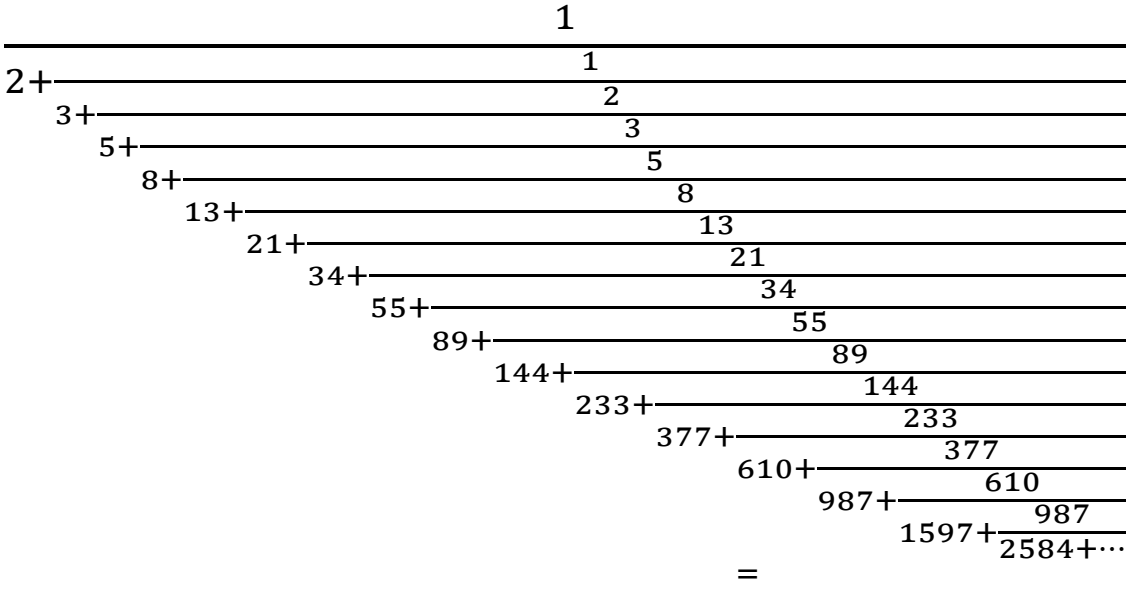
$$\cfrac{1}{1+\cfrac{1}{2+\cfrac{1}{3+\cfrac{1}{5+\cfrac{1}{8+\cfrac{1}{13+\cfrac{1}{21+\cfrac{1}{34+\cfrac{1}{55+\cfrac{1}{89+\cfrac{1}{144+\cfrac{1}{233+\cfrac{1}{377+\cfrac{1}{610+\cfrac{1}{987+\cfrac{1}{1597+\cdots}}}}}}}}}}}}}}$$

=

wert(λsn1)=0.719525251552309105041681912758…
scf(wert(λsn1) =
[0; 1, 2, 1, 1, 3, 3, 11, 11, 1, 1, 1, 19, 1, 2, 4, 1, 2, 4, 2, 2, 3, 4, 1, 1, 2, 2, 1, 2, 51, 7, 1, 1, 1, 2, 4, 1, 2, 2, 1, 3, 14, 1, 3, 2, 2, 2, 2, 1, 6, 1, 1, 1, 1, 5, 1, 10, 14, 1, 11, 1, 4, 1, 1, 1, 4, 2, 2, 5, 3, 1, 1, 1, 1, 1, 2, 1, 1, 1, 30, 1, 7, 1, 1, 2, 1, 64, 2, 1, 122, 3, 1, 3, 6, 2, 13, 3, 2, 2, 3, 4, 4, 3, 1, 1, 3, 2, 38, 2, 3, 2, 4, 2, 9, 4, 2, 5, 1, 2, 1, 76, 3, 1, 76, 5, 4,

1, 1, 3, 2, 2, 1, 2, 1, 8, 13, 10, 1, 1, 6, 1, 1, 9, 1, 2, 2, 1, 35, 1, 1, 1, 1, 6, 5, 1, 1, 1, 7, 1, 1, 17, 15, 1, 1, 1, 1, 1, 1, 2, 1, 4, …]

λsn2 =



wert(λsn2)=0.438079312048454133703025156155…

scf(wert(λsn2)) =

[0; 2, 3, 1, 1, 6, 5, 1, 1, 5, 3, 40, 2, 1, 1, 1, 5, 2, 4, 1, 6, 2, 3, 2, 2, 5, 25, 1, 1, 3, 3, 5, 2, 2, 1, 5, 1, 1, 29, 1, 1, 4, 1, 4, 1, 2, 3, 3, 3, 2, 1, 21, 7, 2, 5, 1, 10, 3, 2, 4, 1, 10, 1, 1, 4, 3, 1, 3, 62, 1, 3, 3, 2, 129, 1, 2, 61, 7, 1, 1, 12, 1, 26, 1, 1, 2, 2, 1, 1, 8, 2, 3, 2, 1, 1, 1, 1, 1, 1, 5, 5, 1, 11, 1, 2, 1, 1, 1, 3, 1, 4403, 1, 3, 21, 1, 25, 8, 11, 1, 1, 7, 5, 1, 1, 26, 1, 14, 1, 2, 5, 1, 1, 2, 19, 8, 5, 13, 2, 2, 1, 1, 1, 1, 22, 1, 1, 14, 1, 1, 4, 7, 1, 3, 12, 3, 4, 5, 4, 1, 5, 241, 18, 1, 10, 1, 1, 3, 1, 5, 2, 3, 7, 47, 1, 1, 4, 11, 4, 2, 1, 1, 1, 2, 1, 2, 156, 4, 2, 1, 21, 3, 4, 3, 95, 3, 2, 87, 5, 6, 2, 1, 2, 2, 1, 1, 1, 7, 1, 3, 7, 1, 2, 4, 2, 4, 25, 1, 1, 1, 2, 1, 1, 4, 2, 3, 2, 2, 1, 1, 2, 4, 12, 2, 2, 2, 1, 4, 1, 2, 2, 1, 9, 4, 9, 4, 5, 98, 1, 7, 19, 21, 24, 8, 44, 2, 19, 2, 6, 13, 1, 4, 2, 6, 1, 13, 1,

1, 1, 1, 1, 9, 4, 1, 1, 116, 5, 6, 1, 1, 1, 2, 2, 1, 9, 1, 6, 1, 2, 22, 1, 17, 1, 14, 1, 24, 1, 19, 4, 4, 1, 11, 1, 2, 2, 2, 1, 4, 1, 1, 49, 3, 1, 5, 1, 12, 1, 2, 1, 1, 14, 1, 5, 1, 1, 1, 2, 1, 1, 1, 5, 1, 23, 1, 7, 4, 2, 26, 1, 44, 1, 734, 4, 1, 3, 2, 10,

1, 9, 1, 1, 3, 3, 51, 1, 13, 1, 2, 1, 52, 4, 1, 2, 1, 2, 1, 9, 3, 5, 1, 5, 1, 3, 2, 1, 1, 35, 1, 8, 1, 238, 14, 8, 3, 1, 6, 1, 3, 2, 5, 1, 1, 1, 5, 1, 4, 1, 1, 11, 2, 8, 20, 1, 5, 2, 9, 3, 5, 2, 3, 6, 1, 23, 1, 1, 5, 2, 1, 13, 1, 1, 1, 1, 5, 4, 1, 1, 2, 5, 1, 5, 2, 2, 6, 1, 10, …]

λsn3 =

$$\cfrac{1}{3+\cfrac{1}{5+\cfrac{2}{8+\cfrac{3}{13+\cfrac{5}{21+\cfrac{8}{34+\cfrac{13}{55+\cfrac{21}{89+\cfrac{34}{144+\cfrac{55}{233+\cfrac{89}{377+\cfrac{144}{610+\cfrac{233}{987+\cfrac{377}{1597+\cfrac{610}{2584+\cfrac{987}{4181+\cdots}}}}}}}}}}}}}}}}}$$

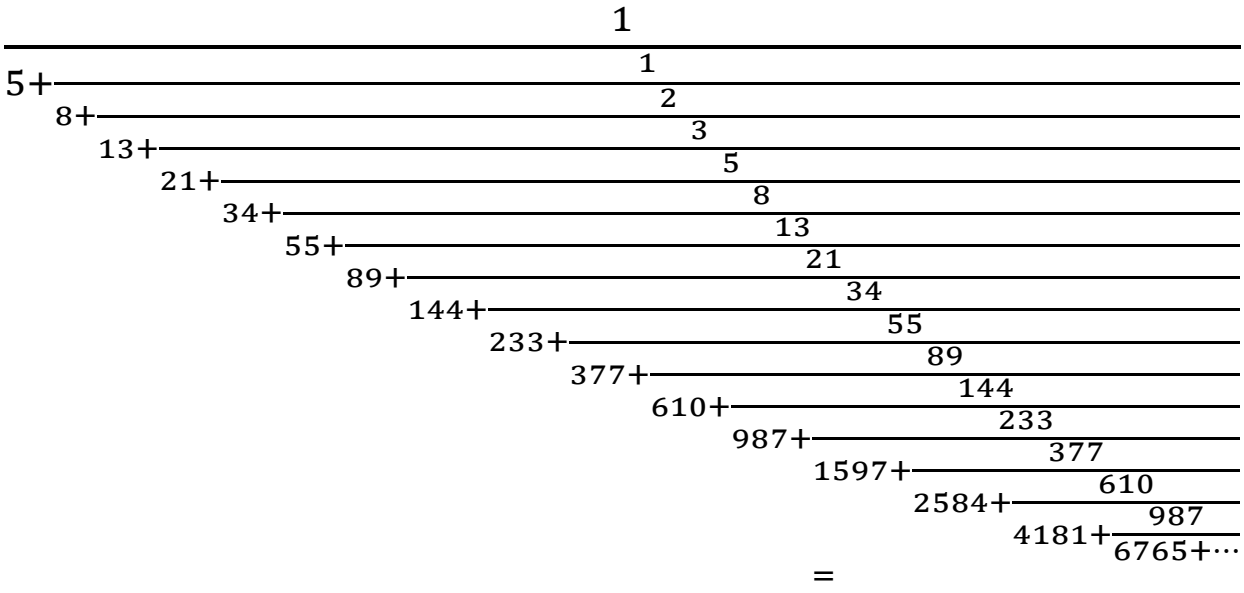
=

wert(λsn3)= 0.313408254541392317559197820294…
scf(wert(λsn3)) =
[0; 3, 5, 4, 8, 1, 4, 1, 2, 28, 2, 1, 13, 5, 2, 2, 3, 11, 1, 1, 5, 1, 3, 2, 2, 29, 1, 1, 2, 1, 3, 107, 1, 1, 2, 1, 1, 2, 5, 1, 6, 3, 1, 3, 1, 14, 1, 3, 1, 12, 1, 3, 2, 6, 46, 1, 2, 3, 1, 10, 1, 19, 1, 24, 120, 14, 4, 2, 4, 4, 28, 1, 1, 2, 2, 1, 1, 2, 2, 2, 1, 2, 9, 1, 19, 1, 1, 140, 1, 19, 8, 2, 3, 61, 2, 1, 3, 1, 2, 1, 3, 7,

5, 1, 1, 2, 1, 1, 1, 7, 1, 3, 4, 1, 1, 1, 2, 39, 1, 1, 1, 2, 2, 1, 5, 9, 3, 4, 15, 5, 1, 154, 1, 11, 22, 5, 3, 2, 5, 2, 7, 3, 6, 1, 1, 4, 2, 3, 1, 4, 1, 1, 1, 1, 2, 1, 5, 3, 270, 1, 2, 54, 1, 251, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 7, 2, 1, 3, 2, 29, 1, 6, 3, 3, 3, 6, 1, 22, 1, 2, 3, 1, 1, 12, 5, 1, 1, 2, 1, 5610, 1, 2, 143, 2, 56, 13, 2, 1, 1, 1, 1, 17, 6, 1, 1, 183, 9, 1, 1, 1, 8, 1, 1, 1, 2, 5, 1, 2, 1, 5, 1, 1, 1, 34, 1, 2, 1, 12, 1, 4, 1, 11, 4, 1, 1, 1, 1, 4, 1, 1, 1, 7, 2, 4, 4, 4, 1, 9, 3, 1, 9, 1, 6, 3, 1, 1, 1, 12, 1, 6, 1, 274, 2, 2, 2, 9, 2, 1, 1, 4, 12, 1, 22, 1, 3, 1, 1, 1, 1, 2, 3, 1, 3, 1, 5, 1, 1, 5, 19, 1, 16, 6, 1, 1, 71, 1, 4, 7, 1, 3, 1, 2, 7, 3, 2, 5, 2, 3, 1, 7, 2, 1, 1, 22, 1, 1, 1, 1, 62, 5, 1, 2, 14, 7, 5, 2, 476, 1, 21, 2, 1, 1, 5, 3, 119, 1, 3, 12, 1, 3, 1, 40, 75, 26, 12, 13, 3, 1, 1, 2, 1, 3, 1, 2, 1, 1, 2, 3, 2, 5, 1, 5, 2, 2, 3, 19, 1, 1, 1, 1, 1, 2, 1, 1, 2, 2, 1, 12, 33, 6, 7, 22, 2, 1, 1, 18, 4, 3, 1, 3, 1, 4, 1, 1, 10, 3, 7, 17, 1, 2, 2, 1, 1, 1, 1, 1, 1, 2, 1, 4, 1, 1, 2, 9, 2, 1, 2, 7,12,

1, 2, 1, 1, 3, 1, 2, 2, 1, 1, 1, 4, 11, 2, 1, 6, 4, 1, 2, 1, 6, 5, 1, 12, 3, 1, 1, 2, 4, 7, 12, …]

λsn4 =



wert(λsn4)=0.19521119433074206107991444392 5…

scf(wert(λsn4)) =

[0; 5, 8, 6, 1, 1, 5, 5, 4, 5, 1, 10, 5, 1, 1, 1, 2, 2, 3, 1, 6, 1,

2, 1, 3, 2, 61, 1, 17, 1, 7, 2, 27, 2, 593, 1, 17, 1, 4, 2, 2,
1, 2, 50, 3, 1, 9, 2, 47, 1, 1, 78, 2, 6, 2, 3, 3, 1, 12, 4, 3,
1, 57, 1, 14, 2, 1, 2, 1, 2, 3, 6, 5, 1, 1, 1, 1, 8, 1, 22, 4, 1,
11, 4, 1, 17, 1, 3, 1, 1, 19, 1, 1, 2, 3, 1, 3, 2, 12, 6, 3, 1,
9, 1, 3, 1, 4, 63, 5, 1, 6, 2, 7, 2, 24, 1, 1, 2, 1, 13, 3, 1,
17, 2, 83, 1, 3, 1, 1, 1, 6, 1, 1, 3, 178, 1, 3, 1, 1, 31, 15,
1, 1, 1, 28, 1, 1, 1, 2, 31, 1, 2, 1, 4, 1, 2, 1, 6, 1, 2, 1, 5,
1, 1, 69, 2, 7, 1, 5, 7, 1, 3, 6, 1, 19, 17, 19, 3, 5, 1, 3, 3,
2, 6, 24, 4, 16, 2, 7, 2, 1, 5, 1, 1, 1, 2, 1, 1, 10, 3, 1, 4, 2,
1, 2, 3, 4, 1, 1, 5, 2, 3, 2, 2, 1, 2, 2, 8, 1, 8, 2, 5, 1, 21, 1,
2, 2, 2, 1, 1, 3, 3, 2, 1, 2, 1, 5, 1, 2, 4, 3, 5, 2, 1, 1, 1, 1,
1, 1, 2, 4, 1, 3, 20, 2, 9, 1, 1, 17, 5, 1, 10, 3, 1, 1, 1, 3, 2,
2, 39, 1, 3, 5, 1, 1, 3, 1, 1, 3, 1, 3, 28, 1, 1, 10, 1, 1, 1, 2,
1, 5, 1, 1, 3, 17, 1, 1, 3, 1, 5, 1, 4, 2, 1, 2, 1, 3, 1, 34, 1,
5, 1, 1, 1, 1, 52, 3, 1, 1, 2, 1, 10, 12, 29, 1, 2, 5, 1, 1, 1,

1, 4, 3, 7, 1, 2, 18, 1, 4, 1, 6, 2, 1, 13, 2, 1, 1, 1, 3, 1, 17,
1, 5, 5, 5, 4, 1, 4, 1, 1, 14, 6, 1, 1, 1291, 1, 30, 1, 1, 1, 1,
14, 1, 2, 1, 11, 1, 2, 2, 7, 1, 4, 11, 2, 67, 1, 2, 1, 1, 1, 1,
1, 11, 2, 1, 3, 2, 2, 2, 36, 1, 1, 2, 1, 1, 5, 8, 6, 8, 132, 1,
1, 7, 4, 1, 6, 1, 14, 2, 3, 4, 1, 3, 4, 1, 1, 17, 1, 15, 1, 2, 1,
7, 2, 17, 1, 99, 6, 3, 1, 3, 3, 1, 4, 1, 10, 10, 1, 1, 12, 1,10,
1, 5, 1, 1, 1, 1, 1, 4, 6, 1, 5, 1, 5, 9, 24, 3, …]

λsn5 =

$$\cfrac{1}{8+\cfrac{1}{13+\cfrac{2}{21+\cfrac{3}{34+\cfrac{5}{55+\cfrac{8}{89+\cfrac{13}{144+\cfrac{21}{233+\cfrac{34}{377+\cfrac{55}{610+\cfrac{89}{987+\cfrac{144}{1597+\cfrac{233}{2584+\cfrac{377}{4181+\cfrac{610}{6765+\cfrac{987}{10946+\cdots}}}}}}}}}}}}}}}$$

=

wert(λsn5) =0.12381806442340599182011775065 1…

scf(wert(λsn4)) =

[0; 8, 13, 10, 1, 1, 5, 5, 1, 1, 334, 11, 3, 8, 1, 4, 3, 3, 1, 3, 6, 1, 1, 4, 1, 1, 4, 3, 8, 1, 1, 1, 2, 1, 1, 1, 2, 2, 14, 1, 2, 45, 1, 2, 2, 1, 3, 3, 44, 2, 1, 5, 2, 1, 50, 45, 2, 4, 1, 1, 2, 1, 1, 3, 30, 7, 341, 2, 2, 2, 3, 7, 1, 5, 4, 5, 2, 1, 9, 4, 2, 5, 2, 1, 3, 1, 1, 19, 22, 1, 6, 2, 1, 1, 1, 2, 1, 2, 5, 54, 4, 8, 1, 20, 65, 1, 5, 9, 1, 12, 1, 1, 2, 1, 2, 1, 2, 1, 13, 1, 4, 1, 20, 3, 1, 2, 1, 3, 5, 24, 1, 1, 1, 4, 3, 7, 1, 1, 1, 2, 2, 2, 1, 1, 3, 1, 3, 6, 5, 6, 4, 152, 5, 1, 16, 1, 2, 1, 10, 1, 10, 11, 1, 1, 68, 2, 10, 3, 2, 30, 1, 3, 3, 4, 3, 4, 1, 1, 3, 29, 57, 4, 12, 1, 26, 1, 5, 1, 43, 1, 8, 2, 1, 2, 1, 2, 2, 1, 1, 3, 1, 1, 51, 1, 1, 1, 2, 2, 3, 1, 1, 24, 1, 62, 2, 1, 1, 2, 3, 19, 3, 5, 3, 1, 26, 1, 1, 1, 12, 5, 14, 1, 1, 1, 1, 1, 1, 5, 2, 1, 1, 2, 1, 5, 4, 1, 1, 2, 1, 1, 1, 3, 1, 1, 1, 6, 2, 1, 1, 1, 4, 9, 3, 3, 1, 2, 4, 1, 1, 5, 2, 2, 118, 3, 12, 1, 5, 4, 1, 1, 1, 2, 3, 8, 6, 2, 3, 2, 1, 2, 1, 1, 1, 47, 2, 1, 1, 7, 7, 3, 4, 1, 8, 10, 5, 1, 9, 2, 5, 75, 2, 1, 2, 1, 1, 12, 6, 2, 2, 10, 20, 1, 1, 1, 1, 2, 1, 11, 1, 1, 1, 1, 2, 1, 2, 3, 2, 1, 1, 1, 1, 1, 3, 25, 1, 6, 4, 4, 1, 31, 1, 3, 2, 1, 1, 1, 1, 7, 1, 1, 1, 1, 1, 19, 7, 3, 14, 2, 3, 1, 1, 1, 12, 1, 2, 1, 3, 1, 1, 2, 1, 1, 1, 3, 35, 14, 1, 2, 2, 1, 7, 1, 33, 1, 1, 5, 1, 1, 14, 4, 1, 5, 1, 22, 1, 1, 1, 3, 6, 1, 78, 23, 2, 1, 1, 2, 1, 8, 9, 1, 5, 11, 1, 6, 1, 21, 2, 3, 1, 1, 1, 1, 3, 4, 1, 3, 1, 1, 2, 1, 1, 1, 1, 2, 295, 5, 1, 6, 2, 1, 2, 1, 1, 15, 1, 3, 4, 8, 1, 2, 9, 5, 1, 3, 2, 4, 2, 1, 3, 9, 1, 36, 2, 1, 1, 1, 1, 1, 7, 3, 1, 2, 1, 1, 35, 1, 28, 1, 2, …]

$$\lambda sz1 = \cfrac{1}{1+\cfrac{2}{1+\cfrac{3}{2+\cfrac{5}{3+\cfrac{8}{5+\cfrac{13}{8+\cfrac{21}{13+\cfrac{34}{21+\cfrac{55}{34+\cfrac{89}{55+\cfrac{144}{89+\cfrac{233}{144+\cfrac{377}{233+\cfrac{610}{377+\cfrac{987}{610+\cfrac{1597}{987+\cdots}}}}}}}}}}}}}}} =$$

wert(λsz1)=
0.4930074266533166695635844300245651306909769
0404705…
scf(wert(λsz1)) =
[0; 2, 35, 3, 1, 27, 2, 3, 1, 2, 2, 23, 6, 2, 6, 2, 1, 1, 2, 9, 2,
47, 4, 25, 2, 1, 11, 217, 2, 1, 1, 1, 1, 11, 1, 3, 1, 3, 5, 2,
170, 1, 4, 29, 9, 2, 3, 6, 60, 1, 1, 2, 4, 2, 2, 1238, 1, 9, 1,
1, 10, 4, 2, 1, 1, 4, 1, 1, 2, 28, 10, 20, 1, 2, 1, 1, 1, 4, 2,
1, 2, 5, 1, 1, 14, 1, 1, 15, 1, 2, 3, 1, 3, 2, 2, 7, 2, 2, 3, 1,
1, 1, 1, 11, 1, 5, 3, 2, 3, 26, 1, 5, 2, 1, 1, 1, 36, 1, 2, 4,
30, 1, 15, 1, 66, 2, 17, 3, 2, 5, 1, 1, 2, 1, 1, 1, 6, 1, 130,
1, 1, 1, 8, 1, 1, 10, 1, 1, 1, 6, 2, 9, 1, 1, 13, 4, 6, 1, 2, 7,
1, 4, 29, 7, 1, 2, 1, 3, 58, 1, 13, 5, 3, 1, 6, 1, 1, 14, 1, 1,
11, 3, 1, 8, 3, 1, 2, 4, 7, 1, 28, 3, 4, 1, 313, 1, 1, 5, 1, 1,
1, 1, 2, 26, 1, 1, 3, 15, 1, 1, 1, 11, 2, 1, 5, 13, 3, 1, 7, 1,
1, 1, 3, 1, 5, 2, 70, 1, 4, 2, 1, 3, 1, 2, 3, 1, 1, 1, 1, 3, 1, 1,
12, 1, 1, 4, 1, 2, 2, 1, 1, 1, 1, 656, 1, 3, 2, 3, 3, 2, 3, 4,
11, 1, 1, 3, 2, 1, 1, 6, 130, 1, 8, 6, 2, 3, 77, 10, 2, 9, 1, 2,
1, 3, 1, 4, 1, 1, 3, 1, 2, 1, 3, 19, 32, 1, 2, 1, 1, 1, 1, 3, 1,

5, 2, 2, 2, 80, 2, 2, 6, 2, 1, 1, 5, 5, 1, 5, 8, 1, 1, 1, 2, 1, 2, 2, 1, 1, 3, 1, 7, 1, 1, 1, 1, 3, 64, 1, 1, 2, 14, 1, 3, 10, 1, 1, 1, 1, 1, 1, 15, 1, 4, 18, 1, 21, 30, 2, 1, 2, 2, 1, 8, 8, 2, 1, 3, 7, 1, 1, 2, 3, 6, 14, 5, 1, 2, 1, 2, 2, 1, 1, 1, 1, 1, 5, 2, 1, 1, 4, 15, 2, 67, 1, 1, 1, 41, 4, 8, 1, 9, 1, 3, 1, 1, 2, 1, 1, 579, 1, 1, 3, 1, 4, 10, 1, 3, 3, 1, 1, 1, 1, 1, 5, 3, 5, 6, 2, 2, 3, 3, 1, 1, 4, 1, 12, 2, 1, 1, 1, 3, 4, 3, 1, 1, 13, 3, 5, 1, 12, 12, 4, 1, 4, 2, 12, 3, 1, 3, 92, …]

$$\lambda sz2 = \cfrac{2}{1+\cfrac{3}{1+\cfrac{5}{2+\cfrac{8}{3+\cfrac{13}{5+\cfrac{21}{8+\cfrac{34}{13+\cfrac{55}{21+\cfrac{89}{34+\cfrac{144}{55+\cfrac{233}{89+\cfrac{377}{144+\cfrac{610}{233+\cfrac{987}{377+\cfrac{1597}{610+\cfrac{2584}{987+\cdots}}}}}}}}}}}}}} =$$

wert(λsz2)=
0.882493365544320812143697047014663482404732470191 85…
scf(wert(λsz2)) =
[0; 1, 7, 1, 1, 24, 8, 1, 21, 2, 2, 8, 3, 1, 1, 3, 1, 5, 1, 1, 14, 3, 10, 3, 147, 1, 2, 8, 1, 3, 3, 8, 9, 6, 1, 1, 4, 15, 2, 4, 23, 14, 1, 1, 2, 2, 3, 1, 1, 13, 2, 1, 5, 5, 41, 2, 1, 2, 70, 2, 2, 3, 1, 1, 14, 6, 29, 1, 10, 2, 3, 3, 7, 2, 3, 8, 5, 3, 1, 1, 3, 1, 43, 6, 1, 2, 2, 1, 1, 6, 5, 63, 1, 6, 1, 2, 2, 1, 2, 2, 1, 5, 18, 4, 7, 1, 9, 1, 6, 6, 6, 1, 1, 1, 3, 3, 2, 1, 82, 1, 1, 2,

686, 90, 1, 1, 21, 1, 1, 1, 1, 4, 2, 2, 2, 1, 7, 1, 29, 3, 1, 18, 2, 2, 8, 8, 1, 1, 1, 15, 1, 1, 7, 6, 4, 2, 14, 1, 2, 1, 2, 1, 3, 1, 1, 1, 4, 17, 2, 12, 2, 4, 1, 2, 2, 20, 5, 1, 1, 1, 1, 12, 1, 12, 6, 6, 11, 22, 1, 1, 16, 7, 3, 2, 1, 3, 3, 2, 3, 3, 9, 2, 4, 1, 9, 2, 1, 1, 1, 1, 4, 3, 6, 1, 125, 1, 2, 1, 1, 1, 1, 2, 14, 2, 1, 1, 12, 1, 2, 4, 1, 26, 38, 1, 1, 5, 1, 3, 1, 2, 12, 1, 5, 36, 31, 2, 6, 2, 1, 2, 7, 3, 1, 2, 2, 16, 2, 1, 1, 2, 2, 2, 1, 8, 4, 3, 11, 1, 3, 7, 1, 6, 1, 1, 7, 5, 26, 1, 3, 17, 1, 18, 1, 2, 30, 1, 1, 2, 3, 1, 3, 1, 1, 2849, 1, 6, 1, 1, 1, 1, 4, 2, 1, 3, 2, 1, 6, 1, 1, 5, 1, 11, 2, 1, 6, 1, 1, 2, 17, 7, 1, 82, 1, 6, 1, 11, 7, 1, 3, 1, 1, 3, 1, 2, 4, 2, 1, 17, 1, 18, 2, 1, 2, 1, 5, 1, 1, 1, 5, 1, 9, 6, 1, 1, 3, 1, 1, 2, 1, 1, 11, 2, 4, 3, 3, 1, 3, 6, 4, 2, 2, 1, 1, 2, 1, 1, 4, 1, 2, 1, 1, 1, 1, 1, 2, 2, 12, 1, 2, 2, 1, 1, 3, 3, 11, 2, 1, 1, 2, 1, 1, 1, 6, 2, 2, 1, 4, 11, 1, 6, 1, 24, 1, 1, 1, 5, 3, 11, 1, 8, 6, 2, 3, 3, 1, 4, 4, 2, 1, 1, 33, 3, 2, 1, 13, 1, 5, 4, 1, 1, 1, 1, 1, 1, 3, 14, 2, 3, 3, 8, 1, 1, 2, 6, 1, 10, 5, 3, 1, 1, 1, 4, 1, 2, 15, 3, 1, 1, 13, 2, 37, …]

$$\lambda sz3 = \cfrac{3}{1+\cfrac{5}{1+\cfrac{8}{2+\cfrac{13}{3+\cfrac{21}{5+\cfrac{34}{8+\cfrac{55}{13+\cfrac{89}{21+\cfrac{144}{34+\cfrac{233}{55+\cfrac{377}{89+\cfrac{610}{144+\cfrac{987}{233+\cfrac{1597}{377+\cfrac{2584}{610+\cfrac{4181}{987+\cdots}}}}}}}}}}}}}} =$$

wert(λsz3)=
1.09048399607934352112673331329959118239943276307 56…
scf(wert(λsz3)) =
[1, 11, 19, 2, 1, 5, 1, 3, 1, 2, 2, 31, 1, 6, 1, 1, 2, 3, 2, 1, 5, 19, 1, 1, 1, 1, 6, 2, 1, 1, 1, 1, 1, 1, 2, 2, 2, 2, 1, 1, 2, 11,2, 9, 14, 2, 2, 7, 2, 4, 1, 4, 1, 1, 1, 1, 9, 1, 3, 64, 1, 4, 2, 1,4, 1, 1, 23, 1, 1, 3, 1, 3, 1, 1, 2, 3, 8, 3, 1, 4, 20, 1, 2, 26, 1, 2, 1, 9, 1, 252, 1, 2, 12, 1, 10, 4, 1, 4, 4, 4, 1, 28, 2, 1,10, 1, 54, 4, 6, 4, 5, 1, 1, 1, 1, 1, 2, 1, 1, 1, 1, 7, 1, 2, 1, 2, 3, 1, 3, 1, 1, 19, 3, 3, 1, 1, 318, 3, 2, 6, 1, 2, 82, 1, 12, 1, 2, 1, 1, 2, 3, 39, 2, 1, 65, 1, 2, 9, 39, 1, 1, 4, 1, 1, 5, 8, 4, 4, 2, 6, 8, 1, 12, 1, 24, 4, 1, 2, 10, 4, 5, 5, 2, 4, 4, 16, 1, 1, 3, 26, 1, 1, 8, 2, 34, 1, 1, 1, 10, 6, 2, 3, 1, 1, 1, 3, 1, 3, 8, 2, 1, 1, 24, 8, 1, 1, 1, 2, 3, 1, 3, 3, 2, 3, 158, 1, 2, 4, 1, 1, 7, 3, 87, 3, 1, 1, 3, 16, 9, 4, 6, 2, 16, 1, 31, 1, 22, 5, 4, 4, 1, 1, 1, 1, 1, 1, 1, 1, 2, 5, 3, 6, 1, 4, 32, 2, 157, 1, 11, 5, 2, 16, 1, 29, 1, 3, 1, 1, 14, 1, 39, 1, 2, 14, 6, 2, 2, 2, 2, 1, 2, 1, 3, 1, 38, 3, 37, 1, 44, 13, 4, 1, 5, 17, 5, 9, 2, 1, 9, 1, 1, 6, 4, 1, 1, 92, 3, 1, 5, 1, 1, 42, 2, 5, 3, 1, 2, 2, 1, 3, 1, 1, 4, 8, 1, 12, 14, 1, 37, 1, 1, 1, 50, 22, 3, 1, 58, 1, 2, 1, 3, 1, 2, 1, 3, 1, 1, 4, 3, 12, 95, 4, 1, 12, 2, 2, 1, 392, 2, 2, 1, 1, 1, 1, 1, 2, 5, 1, 30, 12, 1, 1, 1, 2, 12, 1, 1, 4, 1, 4, 3, 24, 3, 3, 43, 1, 8, 1, 1, 1, 6, 1, 11, 345, 3, 3, 2, 5, 3, 1, 1, 1, 7, 3, 16, 1, 12, 1, 48, 10, 3, 5, 4, 1, 1, 4, 1, 3, 2, 1, 1, 1, 1, 1, 1, 2, 1, 6, 14, 1, 1, 4, …]

$$\lambda sz4 = \cfrac{5}{1+\cfrac{8}{1+\cfrac{13}{2+\cfrac{21}{3+\cfrac{34}{5+\cfrac{55}{8+\cfrac{89}{13+\cfrac{144}{21+\cfrac{233}{34+\cfrac{377}{55+\cfrac{610}{89+\cfrac{987}{144+\cfrac{1597}{233+\cfrac{2584}{377+\cfrac{4181}{610+\cfrac{6765}{987+\cdots}}}}}}}}}}}}}} =$$

wert(λsz4)=
1.528807443251990414689097741287013922404035353534046…
scf(wert(λsz4)) =
[1; 1, 1, 8, 5, 1, 1, 1, 1, 4, 3, 9, 1, 3, 1, 3, 3, 13, 1, 10, 1, 2, 6, 2, 19, 1, 1, 1, 1, 2, 6, 2, 1, 11, 1, 1, 10, 2, 1, 1, 2, 3, 3, 1, 1, 12, 1, 3, 1, 4, 2, 3, 2, 3, 2, 1, 3, 5, 1, 4, 2, 13, 1, 3, 1, 1, 1, 1, 5, 14, 3, 1, 1, 62, 1, 11, 1, 1, 1, 6, 1, 1, 1, 1, 1, 1, 1, 3, 3, 1, 1, 2, 21, 1, 1, 3, 1, 1, 1, 1, 1, 10, 3, 1, 13, 1, 98, 2, 1, 1, 1, 35, 8, 2, 1, 9, 1, 1, 1, 1, 12, 2, 1, 2, 2, 2, 1, 1, 2, 42, 1, 6, 7, 24, 2, 85, 1, 3, 24, 1, 8, 1, 1, 1, 4, 1, 1, 1, 3, 1, 1, 6, 4, 2, 1, 5, 1, 2, 3, 1, 1, 2, 2, 43, 1, 11, 8, 4, 1, 1, 134, 2, 8, 1, 208, 2, 1, 3, 4, 1, 2, 3, 5, 1, 2, 10, 38, 1, 4, 3, 3, 2, 1, 8, 2, 8, 9, 1, 49, 4, 2, 34, 24, 1, 3, 2, 1, 8, 1, 25, 8, 1, 1, 1, 4, 1, 2, 3, 3, 3, 1, 1, 15, 1, 28, 3, 1, 1, 3, 8, 1, 7, 1, 5, 1, 18, 1, 1, 3, 1, 1, 618, 2, 7, 3, 3, 1, 3, 2, 3, 2, 1, 8, 2, 3, 4, 4, 3, 2, 2, 1, 20, 1, 1, 1, 63, 5, 32, 1, 1, 2, 1, 1, 3, 2, 7, 1, 1, 2, 1, 2, 1, 8, 3, 1, 1, 21, 420, 5, 1, 13, 3, 11, 1, 6, 1, 2, 7, 1, 7, 4, 2, 1, 20, 1, 2, 20, 1, 22, 2,

1, 2, 1, 4, 1, 15, 2, 2, 2, 4, 9, 1, 4, 9, 6, 4, 5, 1, 35, 3, 1, 4, 1, 4, 1, 4, 1, 3, 2, 60, 1, 1, 187, 2, 1, 1, 22, 5, 1, 2, 1, 5, 1, 35, 6, 4, 6, 1, 3, 3, 51, 1, 1, 3, 2, 17, 1, 3, 2, 1, 7, 1, 1, 1, 75, 1, 6, 1, 1, 2, 1, 1, 1, 1, 23, 1, 4, 3, 2, 5, 1, 4845,

26, 1, 2, 1, 5, 4, 2, 3, 1, 1, 1, 2, 1, 7, 1, 4, 1, 1, 4, 2, 1, 1, 1, 8, 1, 2, 2, 3, 1, 7, 1, 1, 1, 9, 1, 18, 4, 10, 1, 17, 4, 24, 2, 1, 2, 1, 1, 8, 2, 4, 1, 4, 1, 1, 1, 1, 6, 1, 6, 3, 1, 15, 2, 3, 1, 1, 1, 1, 4, 1, 11, 1, 2, 14, 17, 3, 4, 2, 4, 6, …]

$$\lambda sz5 = \cfrac{8}{1+\cfrac{13}{1+\cfrac{21}{2+\cfrac{34}{3+\cfrac{55}{5+\cfrac{89}{8+\cfrac{144}{13+\cfrac{233}{21+\cfrac{377}{34+\cfrac{610}{55+\cfrac{987}{89+\cfrac{1597}{144+\cfrac{2584}{233+\cfrac{4181}{377+\cfrac{6765}{610+\cfrac{10946}{987+\cdots}}}}}}}}}}}}}} =$$

wert(λsz5)=
2.010548043748543869316004677579095873524660818269 9…
scf(wert(λsz5)) =
[2; 94, 1, 4, 9, 12, 10, 2, 1, 4, 1, 1, 4, 1, 64, 3, 1, 6, 1, 2, 2, 2, 17, 96, 1, 32, 1, 2, 1, 5, 2, 1, 5, 6, 6, 4, 1, 4, 4, 2, 4, 1, 5, 4, 23, 5, 1, 1, 1, 3, 1, 1, 10, 54, 2, 2, 1, 9, 2, 1, 2, 1, 4, 1, 7, 6, 1, 258, 2, 6, 4, 3, 7, 30, 1, 9, 1, 1, 1, 10, 1, 3, 4, 2, 1, 10, 2, 23, 1, 15, 3, 2, 1, 2, 1, 1, 2, 1, 2, 2, 1, 5, 1,

17, 1, 1, 2, 1, 1, 9, 2, 1, 1, 5, 1, 1, 100, 4, 1, 1, 4, 1, 3, 1, 11, 5, 1, 2, 1, 2, 1, 303, 6, 2, 1, 2, 8, 5, 4, 1, 1, 2, 5, 1, 5, 2, 1, 1, 1, 1, 1, 1, 1, 14, 2, 7, 3, 18, 1, 4, 31, 3, 1, 14, 1, 1, 1, 1, 2, 1, 14, 2, 1, 1, 19, 3, 1, 1, 1, 67, 2, 20, 1, 12, 2, 13, 1, 1, 1, 3, 1, 1, 1, 1, 1, 4, 50, 1, 4, 8, 1, 3, 1, 1, 1, 2, 1, 1, 36, 1, 1, 1, 6, 1, 2, 11, 3, 3, 1, 1, 2, 2, 21, 1, 2, 1, 2, 1, 1, 4, 13, 3, 1, 2, 1, 5, 15, 2, 1, 1, 3, 3, 100, 1, 5, 4, 3, 3, 21, 12, 1, 2, 1, 1, 2, 5, 2, 67, 1, 5, 1, 1, 6, 25, 1, 1, 158, 1, 10, 1, 1, 3, 3, 3, 3, 1, 1, 1, 6, 1, 3, 704, 1, 2, 134, 1, 4, 3, 1, 1, 2, 1, 1, 4, 1, 1, 6, 1, 1, 36, 1, 1, 2, 1, 9, 7, 1, 3, 1, 3, 4, 2, 1, 7, 2, 3, 10, 43, 8, 1, 1, 4, 1, 2, 1, 12, 2, 1, 1, 2, 70, 1, 1, 3, 1, 7, 1, 77, 4, 1, 17, 21, 1, 5, 1, 1, 7, 13, 7, 1, 1, 8, 5, 16, 2, 2, 3, 2, 4, 3, 1, 1, 8, 2, 2, 1, 5, 2, 6, 1, 2, 2, 4, 2, 39, 1, 3, 3, 1, 9, 1, 1, 1, 1, 7, 1, 2, 2, 1, 10, 12, 1, 3, 2, 1, 1, 6, 3, 4, 3, 6, 1, 1, 1, 23, 1, 3, 3, 6, 2, 1, 10, 1, 3, 1, 3, 1, 276, 1, 74, 12, 24, 6, 5, 13, 1, 1, 1, 1, 6, 1, 1, 12, 1, 9, 1, 41, 1, 3, 1, 1, 2, 2, 1, 1, 1, 18, 1, 31, 2, 2, 1, 3, 1, 18, 1, 6, 1, 1, 2, 2, …]

$$\lambda sz6 = \cfrac{13}{1+\cfrac{21}{1+\cfrac{34}{2+\cfrac{55}{3+\cfrac{89}{5+\cfrac{144}{8+\cfrac{233}{13+\cfrac{377}{21+\cfrac{610}{34+\cfrac{987}{55+\cfrac{1597}{89+\cfrac{2584}{144+\cfrac{4181}{233+\cfrac{6765}{377+\cfrac{10946}{610+\cfrac{17711}{987+\cdots}}}}}}}}}}}}}}$$

…

wert(λsz6)=
2.679744508013502027033824653530881523475146583182 0…
scf(wert(λsz6)) =
[2; 1, 2, 8, 6, 7, 47, 2, 1, 18, 2, 2, 1, 3, 1, 1, 1, 2, 2, 6, 2, 2, 1, 82, 4, 2, 1, 38, 2, 1, 1, 5, 12, 2, 69, 2, 1, 1, 2, 4, 1, 1, 3, 4, 36, 2, 1, 1, 2, 1, 12, 4, 1, 2, 1, 1, 2, 1, 14, 3, 1, 1, 1, 2, 3, 27, 1, 6, 7, 2, 4, 2, 2, 20, 1, 14, 1, 2, 16, 36, 18, 4, 3, 1, 12, 6, 1, 28, 1, 5, 1, 6, 18, 1, 6, 1, 3, 1, 295, 2, 1, 1, 5, 1, 2, 1, 2, 1, 1, 25, 1, 9, 1, 7, 5, 1, 2, 1, 4, 3, 1, 1, 4, 4, 2, 1, 2, 2, 4, 7, 11, 1, 1, 1, 1, 1, 1, 4, 3, 1, 2, 4, 15, 6, 1, 4, 1, 1, 10, 1, 3, 1, 1, 5, 20, 1, 53, 1, 50, 1, 633, 4, 2, 8, 3, 5, 4, 2, 1, 26, 1, 4, 2, 3, 3, 2, 3, 1, 10, 1, 6, 5, 1, 18, 29, 1, 42, 1, 1, 1, 6, 2, 1, 1, 1, 2, 2, 2, 5, 3, 10, 3, 1, 7, 1, 1, 4, 1, 3, 104, 1, 3, 1, 2, 2, 9, 28, 3, 3, 3, 5, 6, 1, 1, 2, 7, 1, 1, 2, 1, 3, 25, 4, 1, 4, 2, 3, 21, 3, 3, 2, 2, 52, 2, 2, 8, 99, 1, 3, 693, 1, 1, 1, 5, 1, 1, 8, 4, 3, 3, 3, 8, 2, 3, 1, 2, 1, 1, 4, 1, 1, 2, 3, 2, 1, 1, 1, 3, 2, 1, 1, 2, 9, 2, 2, 3, 7, 2, 1, 1, 8, 7, 1, 6, 1, 2, 3, 1, 5, 1, 2, 1, 3, 1, 2, 1, 1, 7, 6, 12, 1, 88, 1, 2, 8, 3, 1, 3, 2, 11, 1, 2, 1, 2, 1, 1, 3, 3, 5, 3, 2, 1, 1, 7, 2, 1, 1, 1, 1, 1, 3, 1, 1, 1, 5, 2, 1, 2, 1, 2, 23, 5, 4, 1, 10, 1, 1, 28, 4, 1, 3, 1, 6, 3, 7, 2, 2, 3, 1, 2, 1, 11, 1, 51, 1, 1, 1, 1, 6, 2, 1, 8, 5, 1, 4, 19, 1, 14, 4, 1, 1, 4, 1, 25, 1, 11, 2, 28, 1, 56, 1, 11, 1, 1, 1, 2, 1, 1, 2, 10, 1, 32, 1, 1, 1, 4, 1, 3, 3, 6, 7, 1, 1, 3, 2, 5, 1, 9, 3, 1, 5, 19, 1, 10, 1, 2, 4, 1, 2, 1, 1, 20, 1, 7, 1, 1, 1, 1, 3, 1, 1, 2, 1, 1, 4, 7, 1, 1, 4, 1, 1, 3, 3, 4, 2, 1, 1, 8, 1, 4, 4, 1, 1, 1, 1, 11, 2, 2, 1, 7, 1, 7, 1, 2, 7, …]

Laterale Ideeneinzugsgebiete

►►Analysetoolbox „2D-Darstellungen von Zahlen, Zahlenfolgen und Zeichenketten“

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Unit 15, part 81.14 wird in Unit 15, part 81.15 mit weiteren Folgen natürlicher Zahlen fortgesetzt.

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