Unit 15, part 76.4

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, quotations, sayings, slogans, scurrilities, besun, etc.
collected for encouragement and the advantage of my students and of myself.

Wort-Fundstücke, Gehörtes, Gelesenes, Zugelaufenes, Angeschwemmtes, …

„Es gibt an unseren Schulen kein **Intuitionstraining**."
In der Straßenbahn gehört.
Das kann ich nicht glauben. Wer widerspricht mit Gegenbeispielen?

„**Wissenschaft** bedeutet Neugier und Offenheit, aber auch Skepsis und Reflexion."
https://editionf.com/interview-mailab-mai-thi-nguyen-kim

„…Gitzinger mit seinem „schlauen Molekül" schaffen, das bei den Bakterien den **Resistenzschalter** betätigt."
https://www.brandeins.de/magazine/brand-eins-wirtschaftsmagazin/2015/oekonomischer-unsinn/die-resistente-industrie

Decode and discuss: pilipid.

Addendum to
Unit 15, part 76.3
Infernal machine 1 (see also Unit 12)

Input: x, accuracy ε

$s := 1; \begin{pmatrix} u \\ v \end{pmatrix} := \begin{pmatrix} 1 \\ x \end{pmatrix}$; i:=1; f(1,x);=1

$s := s + \frac{1}{v}$

$\begin{pmatrix} u \\ v \end{pmatrix} := \begin{pmatrix} 0 & 1 \\ -1 & x \end{pmatrix} \begin{pmatrix} u \\ v \end{pmatrix}$

i:=i+1

$\frac{1}{v} \leq \varepsilon$ (in case of convergence)

f(i,x) := s →

Output: $\langle f(i, x) \rangle$

shows „fast poles“ in the „black hole“ interval -2 <x< 2, so f.e.

$f(i \geq 4, \frac{1}{2}(\sqrt{5} \pm 1)) = \infty$. (1)

Check it and find more behaviour patterns, f.e.

Check

$f(i, \frac{1}{2}(\sqrt{5} - 1)^2)$ → (2)

$\langle f(i, \frac{1}{2}\left(\sqrt{5}-1\right)^2)\rangle =$

{1, 2.309016994374947424102293417182819058860…,
-0.092474629715846955757255856670604342289 27…,
-1.016655458361636475842500370989620224673…,
-3.454510718816067219338413281206679989459…,
-2.153574153711159199003695977704324998026…,
-1.150981037651921765734764594838288413689…,
-149.942659372384508123348313531585124830 3…,
-150.940118017626340992593787312781637639 4…,
-152.257367584071489817078186431215250331 1…,
-149.891080773929647532073070932726529072 6…,
-148.966864289471487720759621142780064533 4…,
-146.491430247849382813147137257099230744 8…,
-147.784435108448149659564299218470189200 8…,
-148.789673706464488771141025197321331078 2…,
-74.392399434175852093154860799984111544 83…,
-73.397430971382654478010524239894966037 23…,
-72.071793160016926354903954132214200635 02…,
-74.403981092582630182515580286110909982 72…,
-75.328268895544138097676335095386897788 95…,
-77.842556905392031435335751493523773609 87…,
-76.557338334870553361565520980731398547 32…,
-75.549401268426906457547271895334227373 16…,
-125.149178735062532743518309773710857222 3…,
-126.141707613972470287419287806599704979 5…,
-127.475892989696493541163923234965342514 8…,
-125.176747706002919038731471753522256746 3…,
-124.252352908086631981027638774203993639 9…,
-121.697871668775922604975461963426485577 6…,
-122.975446156901530676119062318578705185 9…,
-123.986135315173739970896798149682950594 8…,
-86.784627775392198055538208235200844532 82…,
-85.794488440642804196222181827153787323 35…,

-84.45159241325265675882811411451014634482…,
-86.71870451240577026807305258280853221326…,
-87.64324200237704564174384617779352707362…,
-90.23932418250395880558646387146559868691…,
-88.96925467617771830643226726052312488509…,
-87.95575914898944441512228366093280330006…,
-117.71868758579863713314815257188333949 68…,
-118.70648687183473835205635735267295445 81…,
-120.05826053233270719532680870750827555 49…,
-117.82221618897959277774572300354182836 8…,
-116.89750028230629746795031630222074614 69…,
-114.25833624410768962005149578125933860 55…,
-115.52103685806210691812000135042062810 86…,
-116.53739370210570905867398038678832007 56…,
-91.73319887878449000449894096044733807032…,
-90.74769067604582058573754909708196194194…,
-89.38686837537070593814017305964120770039…,
-91.59276888883213484677002381729755795496…,}

Discuss this pulsating 8-clustering structured sequence of output values.

Change for i=20 x from $\frac{1}{2}\left(\sqrt{5}-1\right)^2$ to

$\frac{1}{2}\left(\sqrt{5}+1\right)^2$. What happens next?

Change for x=$\frac{1}{2}\left(\sqrt{5}-1\right)^2$ and i=20 the current value of v to 500. What happens next?

Check other „injections“.

Check

$f(i, \left[\frac{1}{2}\left(\sqrt{5}-1\right)\right]^2)$ (3)

$f(i, \left[\frac{1}{2}\left(\sqrt{5}-1\right)\right]^3)$ (4)

$f(i, \left[\frac{1}{2}\left(\sqrt{5}\pm 1\right)\right]^{\frac{1}{2}})$ (5.1,2)

$f(i, \frac{1}{2}\left[\frac{1}{2}\left(\sqrt{5}\pm 1\right)\right])$. (6.1,2)

$f(i, \left(\sqrt{2}-1\right))$ (7)

$f(i, \frac{1}{2}\left(\sqrt{2}-1\right))$ (8)

and more.

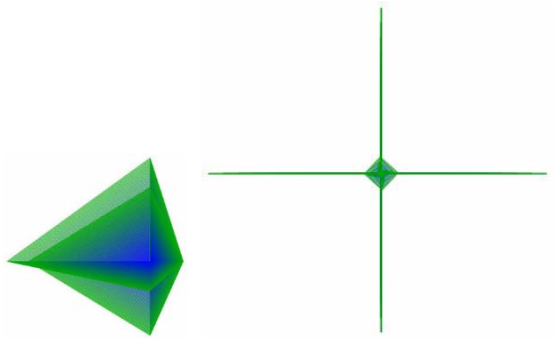
e and fib entangled

$$scf\left(\frac{fib(n+3)-e*fib(n+2)}{fib(n+2)-e*fib(n+1)}\right) =$$

$$[1; \underbrace{1,1,1, \dots ,1}_{n \text{ times}},3,2,1,1,4,1,1,6,1,1,8,1,1,10, \dots] =$$

$$[1; \underbrace{1,1,1,1,1,1, \dots ,(1-e)}_{n+3 \text{ times}}]$$

$fib(0)=1,\ fib(1)=1,\ fib(i+2)=fib(i+1)+fib(i)$



D Q y S P

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