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#!/usr/bin/env ghc

-- the universal czyborspace thesis, also known as plank.hs or weltformel.c
-- 2013-10-30 @by czyborra@campus.tu-berlin.de:facebook.com/roman.czyborra
-- expresses that  $\lambda$  nature is governed by one tiny deterministic lex radicalis
-- hereby creatively expressed in Y2K+13-human-graspable haskell curry formulae
-- later definitely expressable in more mind-blowing less inhuman bee optoakustix

-- above  $\lambda$  dedicated 2 alan+albert+wilhelm from the turing+einstein+reich tribes
-- who expressed major inspirations & harvested tragic obstacles
-- 2 studierendirektorin hellwig who taught us the ability 2 count is what counts
-- 2 professor penn-karras who memorizes all her math without any cluttering paper
-- 2 dietrich dörner for saying we have only understood what we can rebuild ourselves
-- 2 joscha bach for his  $\alpha\phi\omicron\rho\iota\sigma\mu\omicron\sigma$  that intelligence is motivated recognition
-- 2 olove hartmann who preached children must learn 2 walk backwards 2 learn math
-- & whom i miss the hardest due 2 his lonely drowning in this blind+ignorant hell

module Mature where

-- since 1899 when max plank first observed irratsif quantum effect granularity of
--  $h=lightspeed(\approx 2^{40}m/h)electronwavelength(\approx 2.4pm)/masselectrons(\approx 2^{100}/kg)$  multiples
-- in all natural effects and since it is considered radiometrically proven that
-- our universe appears 2b expanding out of one singularity and since konrad zuse
-- conjectured in rechnerer raum the concept of digital physics that all physique
-- might be no more than deterministic digital information processing in 3d space
-- the most likely initial space configuration is

singularity = [[['1']] -- also known as urknall /dutch hoerknal/ big bang theory
test_0 = singularity

-- charlie marx, charles darwin and sir charles popper
-- observed that small evolutionary steps drive history

steps gen0 step = gen0 : steps (step gen0) step
test_1 = take 11 (steps 1 (* 2))

-- in his 2002 new kind of science book physics doctor stephen wolfram analyzed
-- finite sections of many infinite binary 1d-linear elementary cellular assemblers
-- who mendel in single-instruction-step-on-multiple-data parallelism
-- every three neighboring old cell bits into each new cell bit value

triplehoods (a:b:c:d) = [a,b,c] : triplehoods (b:c:d)
triplehoods _ = []
test_2 = triplehoods "0110110"

-- wolfram found 2  $\alpha\mu\phi\iota\chi\iota\rho\alpha\lambda$  turing-universal regulae
-- that do not generate  $\epsilon\upsilon\pi\epsilon\rho\epsilon\iota\alpha$  1 out of cold 000 namely
-- take rule 124 as universal expansion generation rule
-- take rule 110 as universal reflexion generation rule

update3cells _ "000" = '0'
update3cells 124 "001" = '0'
update3cells 110 "100" = '0'
update3cells _ "111" = '0'
update3cells _ _ = '1'

addblanksfor 124 cellrow = triplehoods ("0" ++ cellrow ++ "00")
addblanksfor 110 cellrow = triplehoods ("00" ++ cellrow ++ "0")

updatecellrow by = map (update3cells by) . (addblanksfor by)
test_3 = updatecellrow 124 "1011100101"

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-- the hitherto missing link published neither by wolfram nor google nor the nsa
-- is my personally added geometric synthesis as an expanding and rotatingly updating
-- 3d cellular automaton with bit cells in cubic spatial location step dimensions
-- single-stepping over natural 1d планк time steps in orthogonal  $\mathbb{N}^4$  ether spacetime
-- able to explain a universe with weakly attracting but loudly colliding masses
-- and strongly homosexually repelling but silently effecting electric charges and
-- magnetic rotations underreputed as imaginary numbers rather than the core cause

heads = map head
tails = map tail
xch f p = if null p || null (head p) then [] else (heads p) : (xch f (tails p))
test_4 = (xch id) ["#####", "123456", "abcdef", "αβγδε", "αβγδεφ", "ιηθλξπ"]

xup by = map (map (updatecellrow by))
yup by = map (xch (updatecellrow by))
zup by = xch (map (updatecellrow by))

orgonradiate = zup 110 . yup 110 . xup 110 . zup 124 . yup 124 . xup 124
test5 = orgonradiate singularity

exactquantumhistory = steps singularity orgonradiate
test_6 = exactquantumhistory !! 6
test_7 = exactquantumhistory !! 7
test_8 = exactquantumhistory

-- i already dare say this formula may help cure some relevant errors done v heretics
-- by first engineering a bioscopic zoomer into spacetime for future psychoarcheology
-- to ease exact problem solving within the slowness of all miserably mattering light
-- so we can solve most of our biodiversity fears lest we need starve like wilde+gödel

-- verstehende liebe ist der gegenspieler der angst
-- losie majdanków dla mnie zawsze będziesz przestroga

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