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1 #!/usr/bin/env ghc
2
3 -- the following error-provable roman czyborra space thesis
4 -- ©-by-sa czyborra@campus.tu-berlin.de 2013-10-30
5 -- expresses that λ nature is governed by one tiny deterministic lex radicalis
6 -- hereby creatively expressed in Y2K+13-human-graspable haskell formulae
7 -- later definitely expressable less considerate and more mind-blowing
8
9 -- above all dedicated 2 alan & alfred from the turing & einstein tribes
10 -- who expressed major inspirations & harvested tragic obstacles
11 -- 2 studierendirektorin hellwig who taught us the ability 2 count is what counts
12 -- 2 professor penn-karras who memorizes all her math
13 -- 2 dietrich dörner for saying we have only understood what we can build by ourselves
14 -- 2 joscha bach for his αφορισμοσ that intelligence is motivated cognition
15 -- 2 olove hartmann who preached children must learn to walk backwards to learn math
16 -- & whom i miss the hardest due to his lonely drowning in this blind and ignorant hell
17
18 module Mature where
19
20 -- since max планк and his followers observed smallest quantum granularities
21 -- in natural effects and since it is considered radiometrically proven
22 -- that our universe must have been expanding ever since some urknall
23 -- and since konrad zuse conjectured in rechnerer raum the concept of
24 -- digital physics that physique might just be digital information processing
25 -- the most likely initial space configuration is
26
27 urknall = [[[ '1' ]]]
28 test_0 = urknall
29
30 -- charles darwin and karl popper observed
31 -- that small evolutionary steps drive history
32
33 steps g0 step = g0 : steps (step g0) step
34 test_1 = take 11 (steps 1 (* 2))
35
36 -- wolfram researched finite sections of infinite
37 -- elementary 1-dimensional cellular automata
38 -- who map in single instruction multiple data parallelism
39 -- three neighboring cells into each new cell value
40
41 triples (a:b:c:d) = [a,b,c] : triples (b:c:d)
42 triples _ = []
43 test_2 = triples "0110110"
44
45 -- wolfram found 2 αμφιχιραλ turing universal regulae
46 -- that do not generate ενεργεια 1 out of cold 000 namely
47 -- rule 124 is the universal expansion generation rule
48 -- rule 110 is the universal reflexion generation rule
49
50 update3cells _ "000" = '0'
51 update3cells 124 "001" = '0'
52 update3cells 110 "100" = '0'
53 update3cells _ "111" = '0'
54 update3cells _ _ = '1'
55
56 addblanksfor 124 cellrow = triples ("0" ++ cellrow ++ "00")
57 addblanksfor 110 cellrow = triples ("00" ++ cellrow ++ "0")
58
59 updatecellrow by = map (update3cells by) . (addblanksfor by)
60 test_3 = updatecellrow 124 "1011100101"
```

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61
62 -- the hitherto missing link published neither by wolfram nor google nor wolfram
63 -- is my personally added geometric synthesis as an expanding and rotating
64 -- cellular automaton with cubes in three location step dimensions over time steps
65 -- able to explain a universe with weakly attracting but loudly colliding masses
66 -- and strongly repelling but silently passing electric charges and
67 -- magnetic rotations underreputed as imaginary numbers rather than the core cause
68
69 heads = map head
70 tails = map tail
71 crossmap f m = if null m||null(head m) then [] else f(heads m):(crossmap f (tails m))
72 test_4 = (crossmap id) ["#####", "123456", "abcdef", "абвгде", "αβγδεφ", "אבגדה"]
73
74 xup by = map (map (updatecellrow by))
75 yup by = map (crossmap (updatecellrow by))
76 zup by = crossmap (map (updatecellrow by))
77
78 radiate = zup 110 . yup 110 . xup 110 . zup 124 . yup 124 . xup 124
79 test_5 = radiate urknall
80
81 hiqstory = steps urknall radiate
82 test_6 = hiqstory !! 6
83 test_7 = hiqstory !! 7
84
```