```
-- vim: ts=2 sw=2 et :

-- LOOK.LUA: landscape analysis
-- (c) 2022 Tim Menzies, timm@leee.org, BSD-2 license local 1,L = require"lb", require"look" local any, cli,csv, main,map = l.any, l.cli, l.csv, l.ma in, l.map
local o, oo,shuffle,sort = l.o, l.oo, l.shuffle, l.s ort
local ROW,ROWS = L.ROW, L.ROWS
local the = cli(L.the,L.help)
 local go,no={},{} -- place to store enabled and disabl
ed tests
 function go.the()
   if the.loud then oo(the) end; return type(the.seed) =
"number" end
  function go.row(
 runction go.row( n)
n=0
for r in csv(the.file) do n=n+#r; if the.loud then o
o(r) end end
return n == 3192 end
 function go.egs( rows)
rows= ROWS(the.file)
if the.loud then map(rows.nums.oo) end
return rows.nums[1].hi==8 end
 function go.clone( rows)
  rows= ROWS(the.file)
  oo(rows:mid()) end
function go.dist(    r1,rows,ok)
    ok,rows= true, ROWS(the.file);
    r1 = rows.rows[1]
    for _,r2 in pairs(rows.rows) do
        ok = ok and r2:dist(r2) == 0
        ok = ok and r1:dist(r2) == r2:dist(r1) end
    return ok end
function go.around(    r1, rows, order)
    rows = ROWS(the.file);
    rl = rows.rows[1]
    order = rows.around(r1)
    return order[#order//3].dist < order[#order//2].dist
end</pre>
function go.far( rows,r1,r2,ok)
  ok = true
  rows = ROWs(the.file);
  for k=1,50 do
   r1 = rows:far(any(rows.rows))
   r2 = rows:far(r1)
   ok = ok and r1:dist(r2) > .5 end
  return ok end
function go.betters( t,n1)
  t=sort(ROWS(the.file).rows)
  nl=10
  for k =1,n1 do oo(t[k].cells) end; print""
  for k =#t-n1, #t do oo(t[k].cells) end
  return t[1] < t[#t]
end</pre>
function go.look(    rs,best,bests,rests,n)
    for i=1,20 do
    print("")
    rs = RoWs(the.file)
    rs.rows = shuffle(rows.rows)
    best,bests,rests = rs:look()
    for n,r in pairs(sort(rs.rows)) do r.rank = n // (
#rows.rows // (64.35)) end
    for _,r in pairs(bests) do print(r.rank) end
        n=0
        for _,r in pairs(rs.rows) do if r.evaluated then n
        =n+1 end end
        oo(bests=#bests,rests=#rests,n=n) end
    return true end
```