```
\<u>L</u>\
 local help=[[
bore == best or rest
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       lua bore.lua [OPTIONS]
OPTIONS:
                                                   -Dump
-Format
            cohen
         -data N
-furthest F
-help
                                                     far
show help
                                                                                                                        = .9
= false
                                                    random seed
start-up action
          -todo
                                                                                                                                         (<sub>(</sub>)
 local b4={}; for k,_
local big = 1E32
local tiny = 1E-32
local the = {}
                                                                    in pairs(_ENV) do b4[k]=k end
local function atom(x)

if type(x) \sim = "string" then return x end

x = x : match^{k} \% \% (-) \% \% \% 

if x = "lue" then return true elseif x = "false" then return false end return tonumber (x) or x end
 local function atoms(x, t)  t=\{\}; \ \mbox{for y in } x:\mbox{gmatch} (\mbox{sep or"}([\land,]+)") \ \mbox{do} \ t[1+\#t]=\mbox{atom}(y) \ \mbox{end; return t end} 
  local function cli(txt, t)
       t=(}
txt:gsub("\u00edn [-]([\frac{1}{2}\text{s}]+]\u00edn \u00edn \u00edn
 local fmt = string.format
 local function sort(t,f) table.sort(t,f); return t end
local function slots(t, u) u=\{\}; for k,v in pairs(t) do l=tostring(k); if l:sub(1,1)~="_" then u[1+#u]=k end end; return sort(u) end
local function map(t, f, u) u=\{\}; for k,v in pairs(t) do u[1+#u]=f(v) end; return u end
 local function tablep(t) return type(t) == "table" end
local function o(t, seen)
  seen = seen or {}
if not tablep(t) then return tostring(t) end
  if seen[t] then return "..." end
  seen[t] =t
        local key=function(k) return fmt(":%s %s",k,o(t[k],seen)) end
local u= #t>0 and map(t,function(x) return o(x,seen) end) or map(slots(t),key)
        return '{'..table.concat(u,"").."}" end
local function oo(t) print(o(t)) end
local function rows(file,
  file = io.input(file)
         cal runction rows(file, x,prep)
file = io.input(file)
return function()
    x=io.read(); if x then return atoms(x) else io.close(file) end end end
local function sum(t,f, n)
n=0; for _,v in pairs(t) do n=n+f(v) end; return n end
local function tree(t, seen, pre, txt, v)
pre, seen = pre or "", seen or {}
if not tablep(t) then return print(fmt("%%%",pre,t)) end
if seen[t] then return print(fmt("%%...",pre)) end
seen[t]=t
for _,k in pairs(slots(t)) do
    v= t[k]
    if tablep(v)
    then print(fmt("%%%", pre,k)); tree(v,seen,pre .. " ")
    else print(fmt("%%%s=%%",pre,k,v)) end end end
```

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local as=setmetatable
local function obj( t)
t={_tostring=o}; t.__index=t
return as(t, {__call=function(_,...) return t.new(_,...) end}) end
local function col(at,txt,
                                                     i)
     i = {n=0, at=at or 0, txt=txt or "", has={}}
i.w = i.txt:find"-$" and -1 or 1
return i end
local function add(self,x,inc)
if x==""" then
inc = inc or 1
self.n = self.n + inc
self.ad(x,inc) end
return self end
               local Num=obj()
function Num:new(at,x, new)
new = as(col(at,x),Num)
new.mu, new.m2, new.lo, new.hi = 0, 0, big, -big
return new end
function Num:add(x,_, d)
    d = x - self.mu
    self.mu = self.mu + d/self.n
    self.m2 = self.m2 + d*(x - self.mu)
    self.sd = (self.n2 or self.m20) and 0 or (self.m2/(self.n-1))^.5
    if x > self.nl then self.nl = x end
    if x < self.lo then self.lo = x end end</pre>
 function Num:norm(x)
  return self.hi-self.lo<tiny and 0 or (x-self.lo)/(self.hi-self.lo) end</pre>
 local Sym=obj{}
function Sym:new(at,x,inc, new)
   new=as(col(at,x),Sym); new.most=0; return new end
 function Sym:add(x,inc)
  self.has[x] = inc + (self.has[x] or 0)
  if self.has[x] > self.most then self.most,self.mode=self.has[x],x end end
 function Sym:div()
  local function plogp(n, p) p=n/self.n; return p*math.log(p,2) end
  return -sum(self.has, plogp) end
 local Skip=obj{}
function Skip:new(at,x) return as(col(at,x),Skip) end
function Skip:add(x,inc) return x end
local Cols=objf|
function Cols:new(headers, self,col,here)
self = as({all={}}, x={}), y={}), Cols)
for at,x in pairs(headers) do
if x:find"."s 'then self.all(at] = Skip(at,x) else
col = (x:find".A-Z]" and Num or Sym)(at,x)
self.all[at] = col
here = x:find"[+]S" and self.y or self.x
here[1+#here] = col end end
return self end
 function Cols:add(t)
     for _,col in pairs(self.all) do col:add(t[col.at]) end
return t end
 function Cols:clone(rows, new)
new = new or Cols(map(self.cols.all, function(x) return x.txt end))
for _,row in pairs(rows or {}) do new:add(row) end
return (rows=rows,cols=new) end
function Data:add(t, n)
  if self.cols then self:addData(t) else
    self.cols = Cols(t)
    self.best = self.cols:clone()
    self.rest = self.cols:clone() end end
function Data:heaven(t)
  heaven = function(col) return col:heaven(t[col.at]) end
  return (sum(self.cols.y,heaven)/#self.cols.y)^(1/the.p) end
```