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-- lib.lua : a little library of LUA tricks
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local b4={}; for k,_ in pairs(_ENV) do b4[k]=k end
local lib={}
local failures=0
 saved={}
                      for k,v in pairs(settings) do saved[k]=v end
math.randomseed(settings.seed)
         math.randomseed(settings.seed)
tasks[task]()
for k,v in pairs(saved) do settings[k]=v end end end
lib.rogues()
         os.exit(failures) end
   function lib.init(help, t)
         help:gsub("\n [-]([^%s]+)[^\n]*%s([^%s]+)", function(slot,x)
        nelpigsub("Wi [-](["%s]+]"\"]"\"sk(["%s]+]", tunction(slot, x)
for n, flag in ipairs (arg) do
    if flag:sub(l,1)=="-" and slot:match("\"..flag:sub(2)..".*")
    then x=x=="flag* and "fluc" or x=="fruc" and "flake" or arg[n+1] end end
    t[slot]= lib.thing(x) end)
    if t.help then print(help) end
return setmetatable(t, {_call=lib.main}) end
 function lib.rogues()
  for k,v in pairs(_ENV) do if not b4[k] then print("?",k,type(v)) end end end
      -- random stuff -----
  function iib.many(t,n, o, o (,,,,))

local lo,hi,mid,start,stop = 1,#t
while lo <= hi do
mid = (lo + lo)//2
if t[mid] == x then start,stop = mid,mid end
if t[mid] >= x then hi=mid-1 else lo=mid+1 end end
if t[mid] >= x then hi=mid-1 else lo=mid+1 end end
if t[mid] >= x then hi=mid-1
lo,hi = 1, #t
while lo <= hi do
mid = (lo + lo)//2
if t[mid] >= x then hi=mid-1
elseif t[mid] >= x then stop=mid; lo=mid+1
else lo= mid+1 end end end
return start,stop end
  function lib.copy(t, u)
if type(t) =="lable" then return t end
u={}; for k,v in pairs(t) do u[k]=copy(v) end
return setmetatable(u, getmetatable(t)) end
  function lib.push(t,x) table.insert(t,x); return x end
  function lib.slots(t, u)
       u={} for k,v in pairs(t) do
k=tostring(k); if k:sub(1,1)~="_" then u[1+#u]=k end end
return lib.sort(u) end
 function lib.sort(t,f) table.sort(t,f); return t end
 -- printing stuff -----
lib.fmt = string.format
  function lib.oo(t) print(lib.o(t)) end
function lib.o(t)
if type(t)=="abbe" then return tostring(t) end
local key=function(k) return string.format(":% %%",k,lib.o(t[k])) end
local u = #t>0 and lib.map(t,lib.o) or lib.map(lib.slots(t),key)
return '{'..table.concat(u,"")..."}" end
 -- meta stuff -----
function lib.map(t,f, u)
u={}; for k,v in pairs(t) do lib.push(u, (f or same)(v)) end; return u end
 function lib.same(x) return x end
 function lib.thing(x) x = x \cdot \text{match}^{-1} \frac{g(x)}{g(x)} = x \cdot \text{match}^{-1} \frac{g(x)}{g(x)} = x \cdot \text{match}^{-1} \frac{g(x)}{g(x)} = x \cdot \text{match}^{-1} = x \cdot \text{match}^{-1
         t={}
for y in x:gmatch(sep or"([^.]+)") do lib.push(t,lib.thing(y)) end
return t end
 return lib
```