Tri Selection: procedure Selection (n; enties, @ to:tob): Melsel pour i de la-m-1 faire えしら cape-t(i) tont que F), 1 et tmp (1-17 fois t[876 t[8-1] & C-8-1, fir took open type entie cuties on reel ! Tri abulle!

procedure bubble (n'entre, Ot; tob):

pour l'de Doi n-lfoire's

sit(17) t (i+17) ofors

tmp = t(i]
t[i]=t[i+1]

+[i+1] - tmp
bubble (n, t)

Vin Si

Fin pour

The	Cype
i	entre ou réel.
buildsle	procedure

Tri Shelle. Procedure Shell (M: enties, O) t: tob); Debut: Pas = 1 Kont opne pos > 3+1 < m done POO L- POS 103+1 I'm tout open. pepoler pas a m-1 fair tmp = tsi7 ront que & 7/1 et tre-Post (pur Joni t [83] ~ t [8-805] SI-8-ROS & - Kond ofme Res Frul mound or (300 (V)

project. Moth complex.

Contisione:

Bely fund coli (2-2i)

Od 12 tea 46 46

Jention cole (registrio): Sturg:

Margarti.

13/12/27:

Correction devois Sym not:

PP

Algorithme poil-equilibre &

Debout

Saisin (P,C)

fillmot (ccm)

SICE " equilibre.dot"

remplif (m, sic, l)

SNC1/2" more Somme tot "

rempolis & (sac) sac1, m)

Fi

POS	i		
700		Gype	7
Suc)	ryu n	entres Orane mot	

Sontion (mind) ? enter c'ention): bookson?

Dehal

1 6-1

Reputer

16-1+1

Sheldle - amzeris] + nzgcj

Juropusar chek = four on 1= c-1

Fletomme Jeh.

Fi

Sonction ace (nienter): which solves solves

encolule La Comme de moneire estes positive de 2 novieres;

los dier Som («; estin): estin | los din Som («; estin); estin

Debout

Selon

Parioleo on lone

Selon

Parioleo

Pa

Act: Crime une Ention Decumine permettont de effection la multiplication de 2 chier 20 notter Aet 15, entillaient un monant L'additionent entière. cuellet App = Ax R ... 3 Bp Jo Dia Rec(ocation, be enter): eties Defor Bom; Lo Nor b Jame SC 540 Kin from retonner S Vi. Sontion thec (o. : extent be liver); The Debut Si broolows Retonne, D Comon retoument le (or) (b-D) Ack li soit me home de chonoj coir be figuinan rendoi l'innere de cette home forker per (sky: hois); chair De Jour de da mobil 2 four tmp = Str (i) skeit = Str 5m-1-1] SK EM-1-17 - the Fin Bour

```
Alekona SK
                                           I have
  faction face ( In: Imme, m = 0
    Debout
       si de = " olons
           retoner"
        حے صد
            retaine ( on soft thee (sous chaire (dr. 1, long (h)
Polyndrone Algo:
Iterative:
  For tion est polyindrone (ch: haine): booken
      Debut
        checke thai
        tont que i < long (In) diez et check goine
             Check = ch [1] = ch [long(ch)-1-i-1]
             121+1
        Fin tout one
         retourner check
      (in
  où :
   Fontion polyin ( In : hoine ) toalean
      Debut
         pour i de oa Long (ch) - 1 die 2 faire
              Si ch [:] # ch [long (ch) -1-i] olons
                  retourner four
```

Fin Si Fin Down retourner hai Fir Recursive Fontion reastring (mystring. Inaine, l'entre, bientier, e entres): bodien De bout si b=eon b+1=e day net ouver Vroi Sinon Si mystring [b] = mystring [c]olors retourner hai et recessiones (mystury) 2, 6+1, e-1) Sinon retourner four FinSi Finai Fin

Exercise:

Therefore:

Fontions prod (p:enties): enties

Debut

S = 0

pour de 1 0 - 9 foire

S = S + P

Frim pour

```
retourner S
       < im
  Dec:
  Fonction hoddec (P: entres) ? entres): entres
       Debut
           Sig= o dos
              reburnero
           Sinon
               retournes + Prooffeq (P, 9-1)
            Fin Si
         Fim
probleme 2:
  Iteraul:
    Fonction Sum (m:enties): enter
       Debut
          pour i de 1 à m fais
              SESti
           Kim Bom
           < range
        Fin
```

Fonction sum (m: entres): entres Debut Si m= o dos retournes = Sinon retourner M+ Sum (n-1) Finsi Fin E mklrg Methode Eculide: Fortion pacod (a: entier, b: entier): entir Delsul tont que bto faire 1 C- or mod b Fin tout que retourner a Fin Remine Fontion popul (a: entres, b: entres): entres

Debut

Sib = o dos stourner a retourner (b) a mod b) Fin Si Fin Methode de diff Sterative: Fondien pople (ochtier, be entre): entre Debod tout one out b Si or b olay 0- 6-5 Simon b = b-a Fusi Ein Sentrapre it owner or

Recursine: Forction para d (a: entres, b: entres): entres Debut Si o-= to olay Nomes a a on boloy rekonner pred (a - 5, b) retourner paco (b, b-o-) <= € Fi ~ Fin probleme 4: Iterdine: Fortion isprime (m; entres): book Debut Killetum & Jours 1 40 Brepeter Careturn - mmodi=0

jugne i = n die 2 out + Deturn

retourner man toketur Cin heaville: Fonction is prime (m. entier, i: enties): bool Debut Simital value of i's 1, ? celo is suid nie retonner Vro-Simon retourner hai et m mod i to u-infrime (m, i+1) Fin Si 5-in probleme 5: Iterative: procedure her (mystring; houre): Debut pomideo o (Long (mystig) - 1) div 2 for o Kenp =msting[i] my String [i] - mysting [long (mystring) · 1-i) mysting [long (mystring) · 1-i] = kenp Fri pour Fi

Recursive procedure her (mysting: house): Debut Si Long (my String) > 1 slow temp - mystring[i] my String [i] <- my String [long (my String) - 1] my Stry [long (my Stres) - 1) - temp Rev (som. haire (mysting, 1, Long (amysting)-2) Finsi Fin problemelo: Iterotive Fontion pol (In: have / hood Male [60 helf = forme Reporter Reth = Qri7 = ch [Long(ch)-d-i] 141+1 Jungua long (l)-1) dis 2 = 1 on chel retourner heath Fi

Recursine: Fontion pol (lichoire): book Debut soiler (In) (1 das retourney Urai Longs returner noi et - 2 207 = le [leng (ch)-1] et pol (som drais (d, 1, by (ch)-L)) Fi if smaldery Therotive: Rescorde Der @ C: 100). Bebut paride o a Log(t)-1 div 2 fair temp = t [i] t [i] < [[toog(r)-1-i] f [Long (+) 1-1] < temp Fi pour F-

Peccursius? procedure her (@ + : tale): Debut Silong (+)>1 dos temp = 1 go] t {0}<-t{10-g(t)-1 ([] Long (1)-1] <- leap Rev (1- [1, Long (+)-2]) Fin Fi

Parcedure Rev (@t:bb):

Dehul

PCO

n c-long (t)-1

tonk opuse long div 2 & p faine

top = tpp

t [p] = t[m]

tim] = tep

PLP+1

n=n-1

Frit-Mapue Reconsine procedure Rev (Et: tob, p: eter, n: eter) Debut Si long (+) die 2 CP dos terpet [P] TEPT C- LENT rgm7 = tep Rev (t, P+1, m-1) Fris 8problère 8 Fondier new (rola: chonie) n: etan): hos Rec! Belsh colo of m in retournes e 2 m 7 + rev (ln, m-1) Fin

Fin thope

Si cheath retrourner mid

Sier respuner-1

F.S.

\\ \'

I tenotice ! Forndon her : (ch. dais): dais Bolonder : de long (de) - 1 about à co fois che L dez +de [i] Fr pon retournes chz probleme ?: Frenctive: Fonton binong (1:165, bieter, e sentier, ele) Below check = four tort que hech = force et b (C force mid (- (bs + e) di 2 sit[mid]) = ele heeth a Vrain Sinon Si de > Hrid] 10-10+1 e - mid -1

Recursine. Fonctions binous (+: 63 ele: entres); entres Debut Sit [long(+) div 27 = ele oby objune long (1-) die 2 Ciron si t [long (t) Air]) ele olors retourner smory (t [1, (long (t) di 2) - 1), ele) Simon dymen long (t) dir 2 + binory (t [ioney (t) dir 2) +1) Long (5) - 1 Fin Si Film Ine oure : Recursive ". Fontion linearie (t: tob mientes) so l'estes) e luties Si M=iden rotamon-1 Simon Sit Sil = po olon reh-gumer?

reformer (t, m, e, i+1) Fins 1-i hec 21, with counter: Formation her (t:t. h); p) m); entities Debout Si (zm slay stomer D 5' (9:1) = p alon retiguemen 1 + hec (t , i+ 1, b , m) retomes Rec(t) i+1, x, m) Cis Si

Fis

For tions sinong (t: 6/2 m, p: cules) delah d L- 0 g- m-1 P<--1 tomme of Cf et p= - 1 gain m = (0) + f) di 2 S = T5 m 7 z x 0 /37 Pe ~ 9: 4 C + 21] = 1= € - - 1 5-0-d 2- m+1 Ri ci li lahar rehouse m

Precursive: Fontion Rec (1:125, d, f, 10 : entres): entres Debout si d>folors retignines - 1 mc (dp 8) div 2 Si temes per retornes m Sinolosi t[m] > polon religioner fec (t, sl, ~-1, b) retioner fect ty d, ~+1,p/

Alogo P.P Debut Sizo (m) SuperPrine (m, h C: / file that) Fin procedure Size (@ m: entres): Bebuh Repotes lie (n) 40000 < m < 10000 Fi pro-cedue Super Pre- des (m: entres, poth: choio) Debut

proceoblefill (m:etres)! Si mom 40000(n < 100000 day fill (n) File 5 3 3 9 9 (and que o- > 1 fois tet 60-) a c - a di no 5 din 2 1 2 / 3

,

5-1 (5) = 5 True 5 n=1 1000 = 5 1 2 3 4 5 67 89 10 10 = ? 1=0 ro # pino (miestis): bool Fontie Delow pour i de 2 ou moir 2 foire colo 0 = 1 km m is

ebour i de 2 or main 2 l From i de 2 or main 2 l Agunner Jourse Ein Si

Fel menhai

Sontion Suite (n: entir, 1 p: red): red:

Si my 1 olors a = UP (power (-2, m)) / (2 5 UP)) Si P = m olory

retourner a

fi C

retroumer (Suito (m, P+1, or))

refromero

Fin

fortion pomer (a, is: enter). enter

Below !

ci i (bolos)
retourer or pomer (or, b, i+1)

لأ حن

Momen a

Fi

10=00 11=01° 12=00-00 12=00-00 12=00-00 12=00-00 12=00-00 12=00-00 12=00-00 13=000 13=000 10=0000 10=0000 10=0000 10=0000 10=0000 10=0000 10=0000 10=0000 10=0000 10=0000 10=0000 10=0000 10=0000 10=0000 10=0000 10

fortion binory (m: entires): entires, nes: hair): below.

Debout

into

into

into

ci (Long (nes) olor)

ci (Long (nes) olor)

nes cosos. haidnes, () i+1) + " 1" + (on dair (nes)i+1),

ci os

nes cosos. haidnes, () i+1) + " " + (on dair (nes)i+1),

large (nes)

petoner 1
boilong (mello, D) res)

Siron Momer Nes,

Def. 2: Ordre de recureance: 2.

U1 -1 U2 = 2 Un = Un-1 + Un-2

Fondtion suite (m: entier, suite: hound si: entier): Incine.

Debut

coi mo o olors

Sit (Long (Suite

Misgr _ ~ miniscule,

Alpho- ~ > ~ Z C y

"mat sic"

Msg "bonjour"

Alpho-"ops NWL? ---

Marse "inuma or Pfith"

motes - motes + A-,

Alpho- ->

Marsc

26 Alph

MISO, un masalfitur sonasolb NEP segep

