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'entier, 0) +: (tob): Debut

pour l'de Do- n-lfoire's

Sit(17) t (i+17 ofors

tmp = [i] + [1] = + [1+1] +[i+17 - tmp

bubble (n, t)

Vin Si

Fin pom.

3/3/	Cype
i	entres
top	procedure.
range	1 June Comme

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	;		
100		Gype	Ī
Suc 1	yun	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

SLO

ponioleo on lone

SLS 4?

Fin Comment on (m-1)

Petonners

Fin Ci

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 rendoil'innere de cettechaire 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: Inine, 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 Sim.

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

jet i + 1

Jungua 1 = moisi 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 son les (ch) (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 de 2 + 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] 6-b+1 e - mid -1

Recursine. Fonctions binous (+: 63 ele: entres); entres Debut Sit [long(+) div 2] = ele oby objune long (1-) die 2 Ciron si t[long (t) Air]) ele olors retourner smory (t [1, (lo-g (t) di 2)-1], ele) our dymen long (t) die 2 + binong (t [ioney (t) die 2)+1, Long (5) - 1

