

Corrigés bac pratique informatique
Sections Science de l'informatique
22 Mai 2014 (8h30)

Corrigé Sujet le 22 Mai 2014 à 8h30

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program suite_arith;
uses wincrt;
type
  mat= array[1..10,1..10] of integer;
  fdat = file of integer;
var v:mat; f:fdat; l,m:integer;
{***** remplissage fichier de données
*****}
procedure remplirF(var f:fdat; v:mat;
  l,c:integer);
var i, j,d:integer;
begin
  assign(f,'Fnombres.dat');
  rewrite(f);
  for i:=1 to l do
    for j:=1 to (c div 2) do
      begin
        d:= abs(v[i,j]-v[i,c-j+1] );
        write(f,d);
      end;
    end;
  procedure affichesuite(var f:fdat; l,p,r:integer);
  var d,k:integer;
  begin
    reset(f);
    seek(f,p-1);
    for k:=1 to l do
      begin
        read(f,d);
        write(d:3,' ');
      end;
      writeln(' est une suite arithmétique de raison=
      ',r);
    end;
  {***** Formation des suites arithmétiques
  *****}
  procedure affiche(var f: fdat);
  type dat = record
    p,long,raison:integer;
  end;
  var d1,d2,r,i,j,k,pinit:integer; t:array[1..30] of
  dat;
  begin
    reset(f);
    read(f,d1);
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    read(f,d2);
    r:=(d2-d1);
    l:=2; pinit:=0;
    i:=1; k:=1;
    while(not(eof(f)))do
      begin
        d1:=d2;
        read(f,d2);
        k:=k+1;
        IF (k=filesize(f)-1) or (d2-d1<>r) then
          begin
            with t[i] do
              begin
                p:=pinit;
                long:=l;
                raison:=r;
              end;
            if (k=filesize(f)-1) then
              t[i].long:=l+1;
              r:=d2-d1;
              l:=2;
              i:=i+1;
              pinit:=k;
            end
            else
              l:=l+1;
            end;

            for k:=1 to i do
              with T[k] do
                if(long>2)then
                  affichesuite(f,long,p,raison);
                end;
              end;
            {***** affichage matrice *****}
            procedure affichemat(v:mat;l,c:integer);
            var i,j:integer;
            begin
              for i:=1 to l do
                begin
                  for j:=1 to c do
                    write(v[i,j]:5);
                  writeln;
                end;
              end;
            end;
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{***** Remplissage matrice *****}
procedure remplirM(var v :mat; var l,c:integer);
var i,j:integer;
begin

for i:=1 to l do
for j:=1 to c do
begin
write('V[' ,i,',',j,']: '); readln(v[i,j]);
end;
end;
{***** programme principal *****}
begin
repeat
write('Saisir le nombre de lignes: '); readln(l);
write('saisir le nonbre de colonnes:
');readln(m);
until(l in [3..10]) and (m in [3..10]) and (m mod
2=0);
remplirM(v,l,m);
remplirf(f,v,l,m);
clrscr;
writeln('----- Matrice -----');
writeln;
affichemat(v,l,m);
writeln;
writeln('-----');
affiche(f);
close(f);
end.

```