```
     Correction bac pratique 2014 g1
```

```pascal
{*****************************sujet bac pratique 2014 G1*****************************}
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);
  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;

{********* 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;
{************** 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.
```

```
┌─────────────────────────────────────────────────────┐
│                                                       │
│       Correction bac pratique 2014 g3                 │
│                                                       │
└─────────────────────────────────────────────────────┘
```

{*******************************sujet bac pratique 2014 G3************************************}

```pascal
program mai_14h;
uses wincrt;
type mat=array[1..5,1..5] of char;
var ft:text; mess,motcle:string; m:mat;
function verifdouble(ch:string):boolean;
var    ok:boolean; i,j:integer; c:char;
begin
   i:=1; ok:=true;

  repeat
    c:=ch[i];j:=1;
    repeat
     if(j<>i) and (ch[j]=c)then
        ok:=false
        else
         j:=j+1;
     until(j>length(ch)) or (ok=false);
    i:=i+1;
  until (i>length(ch)) or (ok=false);

  verifdouble:=ok;
  end;
{******** fonction verif1 *****}
function verif1(ch:string):boolean;
var ok1,ok2:boolean; i:integer;
begin
 ok1:=true; i:=1;
 {****** verifie si le mot contient des lettres
majuscules sans W'}

 while (ok1) and (i<=length(ch) )do
  if(ch[i] in ['A'..'V','X'..'Z'])then
     i:=i+1
     else
      ok1:=false;
    ok2:=verifdouble(ch);

 verif1:= (ok1) and (ok2);
end;

  {****** verifie si le mot contient des lettres
majuscules sans W'}
function verif2(ch:string):boolean;
var ok:boolean; i:integer;
begin
 ok:=true; i:=1;
 while (ok) and (i<=length(ch) )do
  if(ch[i] in ['A'..'Z',' '])then
     i:=i+1
     else
      ok:=false;

 verif2:= ok
end;
{********* affichage matrice **********}
 procedure affichemat(v:mat);
```

```pascal
var i,j:integer;
begin
  for i:=1 to 5 do
    begin
     for j:=1 to 5 do
       write(v[i,j]:5);
     writeln;
    end;
 end;
{******* remplissage matrice **********}
procedure remplirM(var M:mat;ch:string);
var ok:boolean; i,j,l:integer; c:char;
begin
 i:=0;l:=1;j:=0;
 repeat
    i:=i+1;
    j:=1;
    repeat
      m[i,j]:=ch[l];
      l:=l+1;
      j:=j+1;
    until(l>length(ch)) or(j>5);

  until (l>length(ch));
 c:='A' ;
 repeat
    if(pos(c,ch)=0)and (c<>'W')then
      if(j<=5) then
        begin
        m[i,j]:=c;
        j:=j+1;
        end
       else
         begin
         j:=1;
         i:=i+1;
         m[i,j]:=c;
         j:=j+1;
         end;
      c:=succ(c);

    until (i>5);
  end;
function crypter(c:char;m:mat):string;
var chi,chj,chcry:string;i,j:integer;
begin
  for i:=1 to 5 do
   for j:=1 to 5 do
     if(m[i,j]=c)then
       begin
        str(i,chi);
        str(j,chj);
        chcry:=chi+chj;
       end;
   crypter:=chcry;
 end;
```

```
procedure remplirF(var  ft:text; m:mat;mess:string);
var    chcry,ch1:string;    i:integer;
begin
 assign(ft,'mess_crypte.txt');
 rewrite(ft);
 chcry:='';
 for i:=1 to length(mess) do
  if(mess[i]=' ')then
    chcry:=chcry+' '
    else
    begin
     ch1:=crypter(mess[i],m);
     chcry:=chcry+ch1;
    end;
   writeln(ft,chcry);
   writeln(chcry);
 end;



{******* programmme principal ********}
begin
assign(ft,'mess_crypte.txt');
repeat
 writeln('saisir Le mot clé: '); readln(motcle);
 until(verif1(motcle));
writeln;
writeln('-----------------------------------------');
writeln;
 repeat
writeln('saisir Le message à crypter '); readln(mess);
 until(verif2(mess));

remplirM(M,motcle);
writeln;
writeln('-----------------------------------------');
writeln;
affichemat(m);
writeln;
writeln('-----------------------------------------');
writeln;
remplirF(ft,m,mess);

end.
```