

Corrigés bac pratique informatique
Sections Science de l'informatique
22 Mai 2014 (14h30)

Corrigé Sujet le 22 Mai 2014 à 14h30

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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
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    else
      ok:=false;
      verif2:= ok
    end;
  {***** affichage matrice *****)
  procedure affichemat(v:mat);
  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;
      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;
          end;
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c:=succ(c);
until (i>5);
end;
function crypter(c:char;m:mat):string;
var chi,chj,chkry: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);
chkry:=chi+chj;
end;
crypter:=chkry;
end;
procedure remplirF(var ft:text;
m:mat;mess:string);
var chkry,ch1:string; i:integer;
begin
assign(ft,'mess_crypte.txt');
rewrite(ft);
chkry:="";
for i:=1 to length(mess) do
if(mess[i]=' ')then
chkry:=chkry+' '
else
begin
ch1:=crypter(mess[i],m);
chkry:=chkry+ch1;
end;
writeln(ft,chkry);
writeln(chkry);
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('-----');

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writeln;
remplirF(ft,m,mess);
end.

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