

Algorithmme application1

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0) DEF FN Occurrence(n,elm:Entier ; T:Tab):Entier
1) i←0,occ←0
2) Répéter
    i←i+1
    Si T[i]=elm
        Alors occ←occ+1
    FinSi
    Jusqu'à (T[i]>elm) ou (i=n)
3) occurrence←occ
4) Fin Occurrence
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Program application2 ;

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Uses Wincrt;
type Tab = Array [1..50] of Integer;
Var T : Tab;
    N, V : Integer;
(*****)
Procedure Saisie (Var T : Tab ; Var n, v : Integer);
Var i : Integer;
Begin
    Repeat
        Writeln ('Donner un entier'); Readln (n);
        Until n in [2..49];
        Writeln ('Saisir les éléments de T en ordre croissant');
        Readln (T[1]);
        FOR i:=2 To n Do
            Repeat
                Readln (T[i])
                Until T[i] >= T[i-1];
            Writeln ('Donner la valeur à insérer'); Readln (v);
End;
(*****)
Procedure insertion (v,n:integer ; var T:Tab );
var i,p:integer;
(*****)
Function recherche_pos (v,n:Integer ; T:Tab):Integer;
Var d, g, m: Integer;
Begin
    g:=1 ; d:=n ;
    Repeat
        m:=(g+d) div 2 ;
        IF V>T[m]
            Then g:=m+1
            Else d:=m-1;
        Until (g>d) or (V=T[m]);
        recherche_pos:=m;
End;
(*****)
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Begin
  p:=recherche_pos(v,n,t);
  For i:=n+1 downto p Do T[i]:=T[i-1];
  T[p]:=v;
End;
(*****
Procedure affiche(n:integer ; t:tab);
var i:integer;
Begin
  writeln('Le nouveau tableau :');
  for i:=1 to n+1 do write(t[i],' ');
End;
(*****p.p*****
BEGIN
  Saisie (T, N, V);
  Insertion (v,n,t);
  Affiche(n,t);
END.

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Program Application3;

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Uses wincrt;
Type tch = array[1..50] of string[20];
     Tc = array[1..50] of char;
Var n:integer;
    t:tch;
    c:tc;
(*****
Procedure saisie(var n:integer ; var t:tch ; var c:tc);
Var i:integer;
begin
  repeat
    write ('N = ');readln(n);
  until n in [4..50];
  writeln ('Remplir les tableaux T et C :');
  for i:=1 to n do
    begin
      write('nom = '); readln(t[i]);
      repeat
        write ('couleur = ');
        readln (c[i]);
        until c[i] in ['R','V'];
      end;
    end;
end;
(*****
Procedure tri(n:integer ; var t:tch ; var c:tc);
Var i:integer;
    permut:boolean;
    aux:string;
    tmp:char;
begin
  repeat
    permut:=false;
    for i:=1 to n-1 do
      if (c[i]>c[i+1])or((c[i]=c[i+1])and(t[i]>t[i+1])) {2 critères}
      then begin
        aux:=t[i] ; t[i]:=t[i+1]; t[i+1]:=aux;

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                tmp:=c[i] ; c[i]:=c[i+1]; c[i+1]:=tmp;
                permut:=true
            end;
        until (permut=false) ;
    end;
    (*****)
Procedure affiche (n:integer ; t:tch ; c:tc);
    Var i:integer;
begin
        for i:=1 to n do   writeln(t[i], ' ',c[i]);
    end;
    (*****p.p*****)
Begin
        Saisie (n,t,c);
        Tri (n,t,c);
        Affiche (n,t,c);
End.

Program tri_miniscule_majuscule;
    Uses Wincrt;
    Var
        ch: String;
        (*****)
Procedure trier(Var ch:String;a,z:Char);
    Var
        i,j,n: Integer;
        x: Char;
Begin
        n := Length(ch);
        For i := 2 To n Do
            Begin
                x := ch[i];
                If (x In [A..Z]) Then
                    Begin
                        j := i;
                        While (j>1) And ((ch[j-1]>x) Or Not(ch[j-1] In [A..Z])) Do
                            Begin
                                ch[j] := ch[j-1] ;
                                j := j-1 ;
                            End;
                        ch[j] := x ;
                    End;
                End;
            End;
        End;
    End;
    (*****p.p*****)
Begin
        ch := 'Aca/2bBACB';
        Trier(ch,'A','Z');
        Trier(ch,'a','z');
        Writeln(ch);
End.

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