

Corrigés bac pratique informatique
Sections Science de l'informatique
23 Mai 2013 (14h30)

Corrigé Sujet le 23 Mai 2013 à 14h30

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program seance3_23_05_2013_14h;
uses wincrt;
type
mat= array[1..24,1..24]of integer;
tenreg=record
nl,ICD,ICF:integer;
end;
tab= array [1..24] of tenreg;
VAR
L,C ,k:integer;
M:mat;
T:tab;
F:text;
procedure remplir (var L,c:integer ; var M:mat)
;
var
i,j:integer;
begin
repeat
write(' taper L:');readln(l);
write(' taper c:');readln(c);
until (l in [3..24]) and (c in [3..24]);
for i:=1 to l do
begin
for j:=1 to c do
Repeat
write('M[' ,i ,',',j ,']='); readln(M[i,j]);
Until (m[i,j]<>0);
end;
end;
end;
procedure Somme (m:mat; lig,col,c:integer; va
r Fin:integer);
var
i,j,s:integer;
begin
Fin:=0; S:=0; i:=lig; j:=col;
repeat
s:=s+m[lig,j];
j:=j+1;
until (S=0) or (j >c);
if (s=0) then fin:=j-1;
end;
end;
procedure traitement (var t:tab; m:mat; l,c:inte
ger; var k:integer );
var

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s,f,i,j:integer;
begin
k:=0;
for i:=1 to l do
begin
for j:=1 to c do
begin
somme(m,i,j,c,f);
if (f<>0) then
begin
k:=k+1;
T[k].NI:=i;
T[k].ICD:=j;
T[k].ICF:=f;
{ writeln(i,'#',j,'#',f);}
end;
end;
end;
end;
function maximum ( t:tab; k:integer ):inte
ger;
var
i,max:integer;
begin
max:=(T[1].ICF-T[1].ICD+1);
for i:=2 to k do
begin
if (T[i].ICF-T[i].ICD+1) > max the
n
max:=T[i].ICF-T[i].I
CD+1;
end;
maximum:=max;
end;
end;
procedure Stockage (var F:text ; t:tab ; k:
integer);
var
max,i:integer;
chm,ligne1, ch,ch1,ch2,ch3:string;
begin
append(f);
max:=maximum(t,k);
STR(max,chm);
ligne1:=' Le nombre d'elements de la plus l
ongue séquence =' +chm;

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        writeln(f,ligne1);
writeln(ligne1);
        for i:=1 to k do
            begin
                if (T[i].ICF-T[i].ICD+1) = max then
                    begin
                        Str(T[i].nl,ch1);
                        Str(T[i].ICD,ch2)
;
                        Str(T[i].ICF,ch3);

ch:=ch1+'#'+ch2+'#'+ch3;
                        writeln(f,ch);
                        writeln(ch);
                    end;
            end;
        Close(f);
    end;
BEGIN
assign(f,'C:\long_Seq.txt');
rewrite(f);
    remplir (l,c,m);
    traitement (t,m,l,c,k);
    stockage (f,t,k);
END.

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