

Corrigés bac pratique informatique
Sections Science de l'informatique
27 Mai 2010 (8h30)

Corrigé Sujet le 27 Mai 2010 à 8h30

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{*****sujet bac pratique
2010 G1*****}
program minmax;
uses wincrt;
type
tab=array[1..50]of integer;
fentier=file of integer;
var
f:fentier;n:integer;t,gn,pn,u:tab;
{*****procedure
remplir*****}
procedure remplir(var f:fentier;n:integer);
var
i,v:integer;
begin
assign(f,'c:\nombre.dat');
rewrite(f);

for i:=1 to n do
begin
repeat
write('saisir un entier entre 1 et 9: ');
readln(v);
until v in [1..9];
write(f,v);
end;
close(f);
end;
{*****procedure
transfert*****}
procedure transfert(var f:fentier;var
t:tab;n:integer);
var
i:integer;
begin
reset(f);
for i:=1 to n do
read(f,t[i]);
write('les éléments du tableau sont: ');
writeln;
for i:=1 to n do
write(t[i]:5);
readln;
close(f);
end;

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{***** procedure
tri*****}
procedure tri(var t:tab;n:integer);
var
i,x,j:integer;
begin
for i:=1 to (n-1) do
for j:=(i+1) to n do
if t[j]< t[i] then
begin
x:=t[i];
t[i]:=t[j];
t[j]:=x;
end;
end;
{*****procedure
nombre*****}
procedure nombre(t:tab;var
pn,gn:tab;n:integer);
var i,x:integer;
begin
tri(t,n);
for i:= 1 to n do
pn[i]:=t[i];
for i := 1 to n div 2 do
begin
x:=t[i];
t[i]:=t[n-i+1];
t[n-i+1]:=x;
end;
for i := 1 to n do
gn[i]:=t[i];
write(' le plus grand nombre gn: ');
for i := 1 to n do
write(gn[i]);
writeln;
write('le plus petit nombre pn: ');
for i := 1 to n do
write(pn[i]);
writeln;
end;
{***** procedure
suite*****}
*)
procedure suite( gn:tab; var u :tab; n:integer);

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var i:integer;
begin
for i := 1 to (n div 2) do
u[i]:=gn[i]-gn[n-i+1];
end;
{***** function
verif*****}
function verif(u:tab;n:integer):boolean;
var
i,k,r0,r:integer; ok:boolean;
begin
r0:=u[1]-u[2];
ok:=true;i:=2; k:=n div 2 ;
while(ok) and (i<= k-1) do
begin
r:=u[i]-u[i+1];
if r0<>r then
ok:=false
else
i:=i+1;
end;
verif:=ok;
end;
{*****programme
principale*****}
begin

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repeat
write('donner n:');read(n);
until n in [3..50];
remplir(f,n);
clrscr;
transfert(f,t,n);
writeln;

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writeln('_____');
writeln;

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writeln('_____');
writeln;
nombre(t,pn,gn,n);
writeln;

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writeln('_____');
writeln;

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writeln('_____');
suite(gn,u,n);
if (verif(u,n)) then
write('u est une suite arithmétique')
else

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write('u n'est pas une suite arithmétique');
end.

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