

Corrigés bac pratique informatique
Sections Science de l'informatique
27 Mai 2010 (10h30)

Corrigé Sujet le 27 Mai 2010 à 10h30

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{*****sujet bac pratique
2010 G2*****}
program bac2010;
uses wincrt;
type
mat=array[1..5,1..5]of real;
var
t,m:mat;
n:integer;
{*****cordonnees*****}
procedure cordonnees (var t:mat;n:integer);
var
i,j:integer;
begin
for j:=1 to n do
begin
writeln ('donner les cordones de:
',chr(64+j));
for i:=1 to 2 do
begin
write('t[' ,i ,',',j,']:');
readln(t[i,j]);
end; end;end;
{*****calcul*****}
function calcul(t:mat;p,q:integer):real;
var
d:real;
begin
d:=sqrt(sqr(t[1,p]-t[1,q])+sqr(t[2,p]-t[2,q]));
calcul:=d;
end;
{*****distance*****}
procedure distance( t:mat;n:integer ;var
m:mat );
var
i,j:integer;
begin
for i:=1 to n do
for j:=i to n do
if (i=j) then
m[i,j]:=0
else
begin
m[i,j]:=calcul(t,i,j);
m[j,i]:=m[i,j];
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end;
end;
{*****affiche*****}
procedure affiche (m:mat;n:integer);
var
i,j:integer;
begin
write(":7);
for i:=1 to n do
write (chr(64+i):7);
writeln;
for i:=1 to n do
begin
write (chr(64+i):7);
for j:=1 to n do
write (m[i,j]:7:2);
writeln;
end;
end;
{***** P P *****}
begin
repeat
writeln ('donner le nombre de point:');
readln (n);
until n in [3..10];
cordonnees (t,n);
distance(t,n,m);
clrscr;
writeln('La distance entre les points: ');
writeln;
writeln;
affiche(m,n);
end.
```