
Exercice 2

```
uses wincrt;
function cb(x:real;n:byte):string;
var ch:string;
    i:byte;
begin
ch:='0.';
for i:=1 to n do
begin
if 2*x<1
then
begin
ch:=ch+'0';
x:=2*x;
end
else
begin
ch:=ch+'1';
x:=2*x-1;
end;
end;
cb:=ch;
end;
begin
write(cb(0.625,4));
end.
```

Exercice 3

```
uses wincrt;
var f1,f2:text;
function fact(n:integer):longint;
var f,i:longint;
begin
f:=1;
for i:=2 to n do
f:=f*i;
fact:=f;
end;
function ver(a,b:integer):boolean;
begin
ver:=((fact(a)*fact(b)) mod(a+b)=a) or((fact(a)*fact(b)) mod(a+b)=b);
end;
procedure creation(var f1,f2:text);
var l,ch1,ch2:string;
    a,b,e:integer;
begin
assign(f1,'source.txt');
assign(f2,'resultat.txt');
reset(f1);
rewrite(f2);
while not(eof(f1)) do
```

```

begin
  readln(f1,l);
  val(copy(l,1,pos(' ',l)-1),a,e);
  val(copy(l,pos(' ',l)+1,length(l)),b,e);
  if ver(a,b)
  then
  begin
    str(a,ch1);
    str(b,ch2);

    l:=ch1+'+'+ch2;
    writeln(f2,l);
  end;
end;
close(f1);
close(f2);
end;

```

```

begin
  creation(f1,f2);
end.

```

Probleme

```

uses wincrt;
type tx=text;
  tab1=array[1..5]of string;
  tab2=array[1..5]of string[30];
  mat=array[1..5,1..5]of byte;
var tm:tab1;
  tc:tab2;
  m:mat;
  n,nl:integer;
  f:tx;
procedure remptm(var tm:tab1; var n:integer);
begin
  n:=4;
  tm[1]:='informatique';
  tm[2]:='algorithmie';
  tm[3]:='html';
  tm[4]:='php';
end;
procedure remptc(var f:tx; var tc:tab2;var nl:integer);
var l:string;
begin
  assign(f,'c:\tpw\chemin.txt');
  reset(f);
  nl:=0;
  while not(eof(f)) do
  begin
    nl:=nl+1;
    readln(f,l);
    tc[nl]:=l;
  end;
  close(f);
end;

```

```

function chermot(var f:tx;m:string):integer;
var c:integer;
l:string;
begin
reset(f);
c:=0;
while not(eof(f)) do
begin
readln(f,l);
while pos(m,l)<>0do
begin
c:=c+1;
delete(l,pos(m,l),length(m));
end;
end;
close(f);
chermot:=c;
end;
procedure rempmat(var m:mat;tm:tab1;tc:tab2;n,nl:integer);
var i,j:integer;
begin
for i:=1 to nl do
begin
assign(f,tc[i]);
for j:=1 to n do
begin

m[i,j]:=chermot(f,tm[j]);
end;
end;
end;
procedure affiche(tm:tab1;tc:tab2;m:mat;n,nl:integer);
var i,j:integer;
begin
for i:=1 to n do
begin
write(tm[i],': ');
for j:=1 to nl do
if m[j,i]<>0
then
write(tc[j],' ');
writeln;
end;
end;
begin
remptm(tm,n);
remptc(f,tc,nl);
assign(f,tc[1]);
rempmat(m,tm,tc,n,nl);
affiche(tm,tc,m,n,nl);
end.

```