

Corrigés bac pratique informatique
Sections Science de l'informatique
21 Mai 2008 (14h30)

Corrigé Sujet le 21 Mai 2008 à 14h30

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program sujet3;
uses wincrt;
type fnat= file of word;
var f,fr,fnr:fnat;n:integer;
procedure creation(var f:fnat;n:integer);
var i:integer;m:word;
begin
assign(f,'c:\bac2008\naturels.dat');
rewrite(f);
for i:=1 to n do
begin
repeat
write('saisir un entier naturel: ');
readln(m);
until (m >=0)and (m<32000);
write(f,m);
end;
close(f);
end;
function conv_bin(dec:word):string;
var r:word; ch_bin,chr:string[20];
begin
ch_bin:="";
repeat
r:=dec mod 2;
str(r,chr);
ch_bin:=chr+ch_bin;
dec:=dec div 2
until (dec =0);
conv_bin:=ch_bin;
end;
function rond(nb:word):boolean;
var n0,n1,i:integer;ch:string;
begin
ch:=conv_bin(nb);
n0:=0;n1:=0;
for i:=1 to length(ch)do
if(ch[i]='0')then
n0:=n0+1
else
n1:=n1+1;
if(n0=n1)then
rond:=true
else
rond:=false;

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end;
var nb:word;ch:string;
begin
assign(fr,'c:\bac2008\round.dat');
rewrite(fr);
assign(fnr,'c:\bac2008\non_round.dat');
rewrite(fnr);
reset(f);
while(not(eof(f)))do
begin
read(f,nb);
if(rond(nb))then
begin
write(fr,nb);
ch:=conv_bin(nb);
writeln('Le nombre ',nb,' est round car
',nb,'=(',ch,')2');
end
else write(fnr,nb);
end;
close(fr);
close(fnr);
close(f);
end;
{***** programme principal *****)
begin
repeat
write('Saisir le nombre des entiers: ');
readln(n);
until( n in [10..100]);
creation(f,n);
clrscr;writeln('-----
'); writeln;
writeln('---- LISTE DES ENTIERS NATURELS
RONDS ----');
writeln;
writeln('-----');
writeln;
eclat(f,fr,fnr);end.

```