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program Suite_dragon ;
uses wincrt;
var f:text; n:integer;a:char;
{***** Procedure CREATION *****}
procedure creation(var f:text);
begin
assign(f,'c:\BG\suite.txt');
rewrite(f);
end;
{***** Procedure SAISIE1 *****}
procedure saisie1(var a:char);
begin
write('u1=');readln(a);
if not(a in ['0','1']) then
saisie1(a);
end;
{***** Procedure SAISIE2 *****}
procedure saisie2(var n:integer);
begin
write('n=');readln(n);
if not(n in [10..50]) then
saisie2(n);
end;
{***** Fonction COMPLG*****}
function complg(ch:string):string;
var i:integer;cc:string;
begin
cc:="";
for i:=1 to length(ch) do
if ch[i]='0' then
cc:='1'+cc
else
cc:='0'+cc;

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complg:=cc;
end;
{***** Procedure SUITE *****}
procedure suite(var f:text;n:integer;a:char);
var i:integer; u1,u2:string;
begin
u2:=a;writeln(f,'U1= ',a);
for i:=2 to n do
begin
u1:=u2;
u2:=u1+a+complg(u1);
writeln(f,'U',i,'= ',u2);
end;
end;
{***** Procedure AFFICHE *****}
procedure affiche(var f:text);
var ch:string;
begin
reset(f);
while not(eof(f)) do
begin
readln(f,ch);
writeln(ch);
end;
end;
{***** PP *****}
begin
creation(f);
saisie1(a);
saisie2(n);
suite(f,n,a);
affiche(f);
end.

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