// 1: GHI SO

var d, N:integer;

begin

assign(input,fin)

readln(N);

while N > 0 do

begin

if N mod 2 = 0 then N:= N div 2 else N:=N-1;

d:=d+1;

end;

write('So lan ghi so len bảng: ', d);

readln;

End.

{

//2: XEP GACH

Const

Fin=’xepgach.inp’;fon=’xepgach.out’;

var

a:array[1..1000] of longint;

i,s,sl,n:longint;

procedure nhap;

begin

randomize;

n:=10;

for i:=1 to n do

a[i]:=random(50);

end;

procedure xuli;

begin

s:=0;

for i:=1 to n do

write(fo,a[i],',');

writeln(fo);

For i:=1 to n do

s:=s+a[i];

if s mod n <>0 then

writeln(fo,-1)

else

begin

s:=s div n;

//tinh chieu cao trung binh

sl:=0;

For i:=1 to n do

If (a[i]>s) then sl:=sl+(a[i]-s);

Write(fo,sl)

end;

close(fo);

end;

begin

assign(input,fin);rewrite(input);

assign(output,fon);rewrite(output);

nhap;

xuli;

close(input);close(output);

end.

//3: DIEM KHAC NHAU

const

fin='differ.inp'; fon='differ.out';

maxn=1000;maxm=1000;

var

a,b:array[1..maxm,1..maxn] of char;

m,n:longint;

procedure nhap;

var i,j:longint;

begin

readln(m, n);

for i:=1 to m do

begin

for j:=1 to n do read(a[i,j]);

readln;

end;

for i:=1 to m do

begin

for j:=1 to n do read(b[i,j]);

readln;

end;

end;

procedure xuli;

var

d,i,j:longint;

begin

d:=0;

for i:=1 to m do

for j:=1 to n do

if a[i,j]<>b[i,j] then inc(d);

writeln(d);

end;

begin

assign(input,fin);reset(input);

assign(output,fon);rewrite(output);

nhap;

xuli;

close(input);close(output);

end.

//4:CHUOI DA

const

fin='test.inp'; fon='test.out';

var s:string;

procedure nhap;

begin

readln(s);

end;

procedure xuli;

var

i,y,r,g:longint;

begin

y:=0;r:=0;g:=0;

for i:=1 to length(s) do

begin

if s[i]='Y' then inc(y);

if s[i]='R' then inc(r);

if s[i]='G' then inc(g);

end;

if (y>0) and (y=r) and (r=g) then write('YES')

else write('NO');

end;

begin

assign(input,fin);reset(input);

assign(output,fon);rewrite(output);

nhap;

xuli;

close(input);close(output);

end.

//5: DAO HAM

procedure xuli;

var

d,i,j:longint;

begin

d:=0;

for i:=1 to m do

for j:=1 to n do

if a[i,j]<>b[i,j] then inc(d);

writeln(d);

end;

begin

assign(input,fin);reset(input);

assign(output,fon);rewrite(output);

nhap;

xuli;

close(input);close(output);

end.

Var k:longint;

procedure nhap;

begin

readln(k);

end;

procedure xuli;

var t:longint;

begin

t:=0;

while k > 2 do

begin

if k mod 2 = 0 then

begin

k:= k div 2; t:=t+4;

end

else

begin

k:=k-1; t:=t+2;

end;

end;

write(t+2);

end;

begin

assign(input,'dao.inp');reset(input);

assign(output,'dao.out');rewrite(output);

nhap;

xuli;

close(input);close(output);

end.

//6:DEM TAU

uses crt;

const MN = 250;

boong = '1'; nuoc = '0';

Function Dem(fn: string): integer;

var

f: text; d,i: integer;

x,y: string;{x:dong tren, y:dong duoi }

begin

Dem := 0; assign(f,fn);

{$I-} reset(f); {$I+}

if IORESULT <> 0 then exit;

x := nuoc;

for i := 1 to 8 do x:= x+x; {x = ’00...0’}

d := 0;

while NOT EOF(f) do

begin

readln(f,y);

if (y[1]=boong)AND(x[1]=nuoc) then d:=d+1;

for i:=2 to length(y) do

if (y[i]= boong) AND (y[i-1]= nuoc)

AND (x[i]= nuoc) then d:=d+1;

x := y;

end;

Dem := d;

end;

BEGIN

n:= Dem('TAU.INP');

if n=0 then

write('Khong mo duoc tep/khong co tau')

else write('Tong so tau: ',n);

readln;

END.

// 7: TU QUA DAI

Procedure VietTat(s:string);

Begin

If length(s)<=10 then writeln(s)

Else

Writeln(s[1], length(s) – 2, s[length(s)]);

End;

Procedure xuli;

Begin

Readln(n);

For i:=1 to n do

Readln(s);

VietTat(s);

End;

//8: NHAN DANG TUOI

program dotuoi;

const

fin = 'dotuoi.inp';

fon = 'dotuoi.out';

var

n,i,j,c,k,max:longint;

fi,fo:text;

begin

assign(fi,fin);reset(fi);

assign(fo,fon);rewrite(fo);

read(fi,n);

max:=0;

read(fi,c);

k:=1;

for i:=2 to n do

begin

read(fi,j);

if (j=c) then inc(k)

else

begin

if k>max then max:=k;

c:=j; k:=1;

end;

end;

writeln(fo,max);

close(fi);close(fo);

end.

//9: DEM SO 0

function dem(i:longint):longint;

var d:longint;

begin

d:=0;

while i>0 do

begin

if i mod 10 = 0 then inc(d);

i:=i div 10;

end;

exit(d);

end;

procedure xuli;

var m,n,i,s:longint;

begin

readln(m,n);

s:=0;

for i:=m to n do s:=s+dem(i);

writeln(s);

end;

//10: XAU DOI XUNG

const

fin='XAU.inp';

fon='XAU.out';

function doixung(s:string):boolean;

var i:longint;

begin

for i:=1 to length(s) div 2 do

if s[i]<>s[length(s)+1-i] then exit(false);

exit(true);

end;

procedure solve;

var d,i,n:longint;

a:array[1..20000] of longint;

s:string;

begin

d:=0;

readln(n);

for i:=1 to n do

begin

readln(s);

if doixung(s) then

begin

inc(d);

a[d]:=i;

end;

end;

writeln(d);

for i:=1 to d do

begin

write(a[i],' ');

if i mod 20 = 0 then writeln;

end;

end;

begin

assign(input,fin);reset(input);

assign(output,fon);rewrite(output);

solve;

close(input);close(output);

end.}

//11: TONG BE NHAT

const

fin='SUMMIN.inp';

fon='SUMMIN.out';

procedure solve;

var n,a,min,i,b,vt:longint;

begin

read(n);

read(a);

min:=1000;

for i:=2 to n do

begin

read(b);

if abs(a+b)<min then

begin

min:=abs(a+b);

vt:=i;

end;

a:=b;

end;

writeln(min);

write(vt-1,' ',vt);

end;

begin

assign(input,fin);reset(input);

assign(output,fon);rewrite(output);

solve;

close(input);close(output);

end.

// 12: SO DOI XUNG

const finp='SYMMETRY.inp';

fout='SYMMETRY.out';

procedure solve;

var

n,m,n1:longint;

begin

readln(n);n1:=n;

m:=0;

while n>0 do

begin

m:=m\*10 + (n mod 10);

n:= n div 10;

end;

if m=n1 then write(1) else write(0);

end;

begin

assign(input,finp);

reset(input);

assign(output,fout);

rewrite(output);

solve;

close(input); close(output);

end.

//13: DUONG DI

const finp='path.inp';

fout='path.out';

var i, n, d, x, s: longint;

c: char;

begin

assign(input,finp);

reset(input);

assign(output,fout);

rewrite(output);

readln(n,d);

for i:=1 to n do begin

readln(c,c,x);

s:=s+x;

end;

writeln(S);

close(input);

close(output);

end.

// 14: NGUA TRUYEN TIN

const finp='HORSE.inp'; fout='HORSE.out';

var n,x,y,s,i: longint;

begin

assign(input,finp); reset(input);

assign(output,fout); rewrite(output);

read(n); read(x);

for i:=2 to n do

begin

s:=s+x;

read(y);

if y<x then x:=y;

end;

writeln(S);

close(input); close(output);

end.

// 15: TIM TOI PHAM

const

fin='test.inp'; fon='test.out';

var

a,b:array[1..100,1..100] of char;

m,n:longint;

procedure xuli;

var

i,n:longint;

s:string;

co:boolean;

begin

readln(n);

co:=false;

for i:=1 to n do

begin

readln(s);

if pos('FBI',s)>0 then

begin

write(i,' ');

co:=true;

end;

end;

if not co then write('GO');

end;

begin

assign(input,fin);reset(input);

assign(output,fon);rewrite(output);

xuli;

close(input);close(output);

end.