

OLIMPIADA NAȚIONALĂ DE INFORMATICĂ  
Etapa județeană  
Clasa a – VII –a  
Soluții

Problema 1

```
program nu_te_supara_frate;
type vect=array[1..100] of byte;
var n,j1,j2,s1,s2,zar:byte;
    p:vect;
    gata:boolean;
    f,g:text;

procedure citire;
var i:byte;
begin
    reset(f);
    readln(f,n);
    for i:=1 to n do
        read(f,p[i]);
    readln(f);
end;

procedure joc;
begin
    j1:=1;
    j2:=1;
    gata:=false;
    while not eof(f) and not gata do
        begin
            read(f,zar);
            j1:=j1+zar;
            if j1>n then
                j1:=j1-n;
            if (p[j1]=0) or ((j1=j2) and (j1<>1)) then
                begin
                    s1:=0;
                    j1:=1;
                end
            else
                s1:=s1+p[j1];
            if (j1=1) and (s1<>0) then
                gata:=true;
            writeln('* ',j1,' ',s1);
            if not gata and not eof(f) then
                begin
                    read(f,zar);
```

```

        j2:=j2+zar;
        if j2>n then
        j2:=j2-n;
        if (p[j2]=0) or ((j1=j2) and (j2<>1)) then
            begin
                s2:=0;
                j2:=1;
            end
        else
            s2:=s2+p[j2];
        end;
        if (j2=1) and (s2<>0) then
            gata:=true;
            writeln('* ',j2,' ',s2);
        end;
    close(f);
end;

procedure afisare;
begin
    rewrite(g);
    if gata then
        begin
            if j1=1 then
                writeln(g,1)
            else
                writeln(g,2)
            end
        else
            begin
                if s1>s2 then
                    writeln(g,1)
                else
                    begin
                        if s2>s1 then
                            writeln(g,2)
                        else
                            if j1>j2 then
                                writeln(g,1)
                            else
                                writeln(g,2);
                            end;
                    end;
            end;
            writeln(g,j1,' ',s1);
            writeln(g,j2,' ',s2);
            close(g);
        end;

begin
    assign(f,'9-joc.in');
    assign(g,'joc.ok');
    citire;

```

```
joc;  
  afisare;  
{readln;}  
end.
```

## Problema 2

```
program siruri;
type vect=array[1..100] of integer;
var x,y:vect;
    n:byte;
    f:text;
    cale1,cale2:string;

procedure citire;
var i,j:byte;
begin
    assign(f,'siruri.in');
    reset(f);
    readln(f,n);
    for i:=1 to n do
        read(f,x[i]);
    close(f);
end;

procedure constructie;
var i,j:byte;
begin
    for i:=1 to n do
        y[i]:=1;
    for i:=1 to n-1 do
        for j:=i+1 to n do
            if x[i]>x[j] then
                y[i]:=y[i]+1
            else
                y[j]:=y[j]+1;
        end;
    end;

end;

procedure afisare;
var i:byte;
begin
    assign(f,'siruri.out');
    rewrite(f);
    for i:=1 to n do
        write(f,y[i],' ');
    close(f);
end;

begin
    citire;
    constructie;
    afisare;
end.
```