



## **26<sup>ος</sup> ΠΑΝΕΛΛΗΝΙΟΣ ΔΙΑΓΩΝΙΣΜΟΣ ΠΛΗΡΟΦΟΡΙΚΗΣ**

### **ΘΕΜΑ Β΄ ΦΑΣΗΣ ΛΥΚΕΙΟΥ**

#### **Ηλιακός Άνεμος**

##### **C++**

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**14ο ΓΕΛ Θεσ/νίκης**

```
#include <stdio.h>
int N,a[1000009],r[1000009],l[1000009],cmin=1000009,cmax=-1,num=-1;
int main () {
    freopen("solar.in","r",stdin);
    freopen("solar.out","w",stdout);
    scanf("%d",&N);
    for (int i=1;i<=N;i++) {
        scanf("%d",&a[i]);
        l[i]=a[i]>cmax?1:0;
        cmax=a[i]>cmax?a[i]:cmax;
    }
    for (int i=N;i>=1;i--) {
        r[i]=cmin>a[i]?1:0;
        num=(l[i]==1&&r[i]==1&&num<a[i])?a[i]:num;
        cmin=cmin>a[i]?a[i]:cmin;
    }
    num==-1?printf("NOT FOUND\n"):printf("%d\n",num);
    return 0;
}
```

##### **PASCAL**

**Ελένη Αλευρά**

**Κολλέγιο Ψυχικού**

```
program solar;
var
    s,a: array [1..1000000] of longint;
    x,z,y,N,i,k: longint;
    filein,fileout:text;
```

```
begin
assign(filein,'solar.in');
assign(fileout,'solar.out');
```

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```
reset(filein);

readln(filein,N);

for i:= 1 to N do
begin
  readln(filein,s[i]);
  a[i]:=0;
end;
close(filein);

y:=0;
z:=1000000;

for i:=1 to N do
begin
  if s[i]>y then
  begin
    y:=s[i];
    a[i]:=a[i]+1;
  end;
end;

for i:= N downto 1 do
begin
  if s[i]<z then
  begin
    z:=s[i];
    a[i]:=a[i]+1;
  end;
end;

a[1]:=0;
a[N]:= 0;

for i:=1 to N do
begin
  if a[i]=2 then
  begin
    x:=x+1;
  end
  else
  begin
```



```
        a[i]:=0;
    end;
end;
rewrite(fileout);

if x=0 then
begin
    write(fileout,'NOT FOUND');
end;

if x= 1 then
begin
    for i:= 1 to N do
        begin
            if a[i]=2 then write(fileout,s[i]);
        end;
    end;
end;

k:=0;
if x>1 then
begin
    for i:= 1 to N do
        begin
            if (a[i]=2) and (s[i]>k) then
                begin
                    k:=s[i];
                end;
        end;
    end;
    write(fileout,k);
end;
close(fileout);

end.
```

## C

**Δαυίδ Χρήστο Τζουλιάννα**

**Εκπαιδευτήρια Δούκα**

```
#include <stdio.h>
```

```
int checkmx[1000000], checkmi[1000000], max, min, i, N,
nums[1000000];
```

```
int main(void)
{
```

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```
freopen("solar.in", "r", stdin);
freopen("solar.out", "w", stdout);

max = -1;
min = 1000001;

scanf("%d", &N);
for(i = 0; i < N; ++i)
{
    scanf("%d", &nums[i]);
}

for(i = 0; i < N; ++i)
{
    if(nums[i] > max)
    {
        checkmx[i] = 1;
        max = nums[i];
    }
    if(nums[N-1-i] < min)
    {
        checkmi[N-1-i] = 1;
        min = nums[N-1-i];
    }
}

max = -1;

for(i = 0; i < N; ++i)
{
    if(checkmi[i] == 1 && checkmx[i] == 1)
    {
        if(nums[i] > max)
        {
            max = nums[i];
        }
    }
}

if(max == -1)
{
    printf("NOT FOUND\n");
}
else
```



```
{  
    printf("%d\n", max);  
}  
  
return 0;  
}
```