

Рег.Номер: 4097

ФИО: Моторкин Владимир Максимович

Баллы: 65

Вариант№: 2

Задание1 (13/15 баллов)

```
program project1;
var s1,s,slovo:string;

function palindrom(s:string):boolean;//РiCЪPsPIPμCЪPeP° PSP°
PïP°P»PëPSPrCЪPsPj
var k,chet,nechet:integer;
var b:string;
begin
    chet:=0;
    nechet:=0;
    while length(s)>0 do
        begin
            b:=copy(s,1,1);
            k:=1;
            delete(s,1,1);
            while pos(b,s)<>0 do
                begin
                    delete(s,pos(b,s),1);
                    k:=k+1;
                end;
            if k mod 2 = 0 then chet:=chet+1
            else nechet:=nechet+1;
        end;
    if nechet<=1 then palindrom:=true
```

```

        else palindrom:=false;

end;

begin
    readln(s);
    s1:=s;
    s:=s+' ';
    while length(s)>0 do
        begin
            slovo:=copy(s,1,pos(' ',s)-1);
            delete(s,1,pos(' ',s));
            if palindrom(slovo) then delete(s1,pos(slovo,s1),length(slovo));
        end;
        writeln(s1);
    end.

```

Задание2 (12/15 баллов)

```

program Project1;

var i,n,l,j,f1,f2,f3:integer;
var s,s1,slovo:string;
var a:array[1..10] of integer; //PjP°CfCfPëPI PïCßPsCfC,C<C...
C†PëCfPµP» PяPëP±PsPSP°C†C†Pë

```

```
var flag:boolean;
```

```
procedure swap(var a,b:integer);
```

```
var k:integer;
```

```
begin
```

```
    k:=a;
```

```
    a:=b;
```

```
    b:=k;
```

```
end;
```

```
procedure sort(var a:array of integer; n:integer);
```

```
var i,j:integer;
```

```
begin
```

```
    for i:=1 to n-1 do
```

```
        for j:=i to n-i do
```

```
            if a[j]<a[j+1] then swap(a[j],a[j+1]);
```

```
end;
```

```
begin
```

```
    readln(s1); //PIPIPsPr CíC,CbPsPePë
```

```
    f1:=1;
```

```
    f2:=1;
```

```
    i:=2;
```

```
    a[1]:=1;
```

```
    s1:=s1+' ';
```

```
    s:=s1;
```

```
    while f3<256 do //P·P°PiPsP»PSPµPSPëPµ PjP°CíCíPëPIP°  
PiCbPsCíC,C<C... C†PëCíPµP» P¤PëP†PsPSP°C†C†Pë < 256
```

```
        begin
```

```
            flag:=true;
```

```

f3:=f1+f2;

for j:=2 to round(sqrt(f3)) do
    if f3 mod j = 0 then flag:=false; //PïCßPsPIPµCßPeP° PSP°
PïCßPsCíC,PsPµ CþPëCíP»Ps
        if flag then begin a[i]:=f3; i:=i+1; end; //PµCíP»Pë
PïCßPsCíC,PsPµ, C,Ps PrPsP±P°PIP»CµPµPj PI PjP°CíCíPëPI
            f1:=f2;
            f2:=f3;
        end;
n:=i-1;
while length(s)>0 do
    begin
        slovo:=copy(s,1,pos(' ',s)-1);
        delete(s,1,pos(' ',s));
        l:=length(slovo);
        for i:=1 to n do if a[i]=1 then //PïCßPsPIPµCßPeP° PSP°
PSP°P»PëCþPëPµ C,P°PePsPiPs CþPëCíP»P° PI PjP°CíCíPëPIPµ
            begin
                slovo:=slovo+' ';
                insert(slovo,s1,pos(slovo,s1)+length(slovo));
            end;
        end;
    writeln(s1);
end.

```

Задание3 (18/18 баллов)

```

program project1;

```

```

type mas=array[1..1000] of integer;
var a:mas;
var s:string;
var i,j,n,s1,s2,code:integer;

procedure swap(var a,b:integer);
var k:integer;
begin
    k:=a;
    a:=b;
    b:=k;
end;

procedure sort(var a:mas; n:integer);
var i,j:integer;
begin
    for i:=1 to n-1 do
        for j:=1 to n-i do
            if a[j]<a[j+1] then swap(a[j],a[j+1]);
end;

begin
    readln(s);
    s:=s+' ';
    i:=1;
    while length(s)<>0 do //P·P°PïPSP»PSPµPSPëPµ PjP°CíCíPëPIP°
        begin
            val(copy(s,1,pos(' ',s)-1),a[i],code);
            delete(s,1,pos(' ',s));

```

```

        i:=i+1;
    end;
    n:=i-1;
    sort(a,n);
    s1:=0;
    s2:=0;
    for i:=1 to n do
        if s1<=s2 then s1:=s1+a[i]
        else s2:=s2+a[i];
        if s1<s2 then writeln(s2,' ',s1)
        else writeln(s1, ' ', s2);
    end.

```

Задание4 (22/22 баллов)

```

program Project1;
type mas=array[1..100] of integer;
var a:array[1..100] of mas;
var i,j,n1,n2,code,min,max:integer;
var s:string;
var mina,maxa:mas;

procedure swap(var a,b:integer);
var k:integer;
begin
    k:=a;
    a:=b;

```

```

    b:=k;
end;

```

```

procedure swaparr(var a,b:mas; n:integer); //P̂iP̂uĈB̂P̂uĈf̂C,P°PSPsPIPeP°
ĈB̂Ĉl̂P̂r̂PsPI

```

```

var k,i:integer;
begin
    for i:=1 to n do
        begin
            k:=a[i];
            a[i]:=b[i];
            b[i]:=k;
        end;
    end;

```

```

end;

```

```

procedure sort(var a:mas; n:integer);
var i,j:integer;
begin
    for i:=1 to n-1 do
        for j:=1 to n-i do
            if a[j]<a[j+1] then swap(a[j],a[j+1]);

```

```

end;

```

```

begin
    readln(s);
    s:=s+' ';
    repeat
        val(copy(s,1,pos(' ',s)-1),n2,code);
        delete(s,1,pos(' ',s));

```

```

until code=0;
repeat
    val(copy(s,1,pos(' ',s)-1),n1,code);
    delete(s,1,pos(' ',s));
until code=0;
for i:=1 to n1 do
    for j:=1 to n2 do
        begin
            repeat
                val(copy(s,1,pos(' ',s)-1),a[i][j],code);
                delete(s,1,pos(' ',s));
            until code=0;
        end;
    for i:=1 to n1 do sort(a[i],n2);
    for i:=1 to n1 do
        begin
            mina[i]:=0;
            maxa[i]:=0;
        end;
    for j:=1 to n2 do //PSP°C...PsP¶¶PrPµPSPëPµ PSP°PëP±PsP»PµPµ
CTßPsCfP»C<C... Pë PSP°PëPjPµPSPµPµ PI PeP°P¶¶PrPsPN® PePsP»PsPSPSPµ
        begin
            min:=10000;
            max:=0;
            for i:=1 to n1 do
                begin
                    if a[i][j]<min then min:=a[i][j];
                    if a[i][j]>max then max:=a[i][j];
                end;
            for i:=1 to n1 do
                begin

```



```

        if a[i][j]=min then mina[i]:=mina[i]+1;
        if a[i][j]=max then maxa[i]:=maxa[i]+1;
    end;
end;

for i:=1 to n1-1 do
    for j:=1 to n1-i do //PiPμCBPμCfC,P°PSPsPIPeP° CBÇPPrPsPI
PsC,PSPsCfPëC,PμP»CBPSPs CBPsCfC,P° PI PePsP»PsPSPSP°C...
        begin
            if mina[j]<mina[j+1] then
                begin
                    swaparr(a[j],a[j+1],n2);
                    swap(mina[j],mina[j+1]);
                end
            else if mina[j]=mina[j+1]then
                if maxa[j]>maxa[j+1]then
                    begin
                        swaparr(a[j],a[j+1],n2);
                        swap(maxa[j],maxa[j+1]);
                    end;
                end;
            end;
        end;
    for i:=1 to n1 do
        for j:=1 to n2 do
            write(a[i][j], ' ');
        end.
end.

```