

Рег.Номер: 3902

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Баллы: 52

Вариант№: 3

Задание1 (5/5 баллов)

```
program Osokin_Vladislav_1;
var
    h1,m1,h2,m2,kolm,kols,sall,sbetween,poez:longint;
begin
    readln(h1,m1,h2,m2,kolm,kols);
    sbetween:=kolm*60+kols;
    sall:=h2*3600+m2*60-h1*3600-m1*60+59;
    poez:=sall div sbetween+1;
    writeln(poez);
end.
```

Задание2 (7/10 баллов)

```
program second;
var
    ch1,ch2,kol,i,ch,res:longint;
begin
    read(ch1,ch2);
    for i:=ch1 to ch2 do begin
        ch:=i;
```

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while ch<>0 do begin
    res:=res+ch mod 10;
    ch:=ch div 10;
end;
if (res mod 2)<>0 then
    kol:=kol+1;
res:=0;
end;
write(kol);
end.

```

Задание3 (0/15 баллов)

```

program third;
var
    s,chislo:ansistring;
    ch1,ch2,kolcif,kolob,i,ch,res:longint;
begin
    read(ch1,ch2,kolcif);
    s:='0123456789ABCDEF' ;
    for i:=ch1 to ch2 do begin
        ch:=i;
        if ch=0 then
            kolob:=kolob+1;
        while ch<>0 do begin
            res:=ch mod 16+1;
            chislo:=chislo+s[res];

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        ch:=ch div 16;
    end;
    if length(chislo)=kolcif then
        kolob:=kolob+1;
        chislo:='';
    end;
    write(kolob);
end.

```

Задание4 (15/15 баллов)

```

program fourth;
var
    s,chislo:ansistring;
    ch1,ch2,kolcif,kolob,koled,i,k,ch,res:longint;
begin
    readln(ch);
    ch1:=ch;
    if ch1=0 then
        s:='0';
    while ch1<>0 do begin
        res:=ch1 mod 2;
        if res=0 then
            s:='0'+s
        else
            s:='1'+s;
        ch1:=ch1 div 2;
    end;
end.

```

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end;

for i:=1 to 8-length(s) do
    s:='0'+s;
for i:=1 to length(s) do
    if s[i]='1' then
        koled:=koled+1;
if (koled mod 2)=1 then begin
    s:=copy(s,3,length(s))+'00';
end else begin
    s:=copy(s,1,length(s)-1);
    koled:=0;
    for k:=1 to length(s) do
        if s[k]='1' then
            koled:=koled+1;
        if (koled mod 2)=1 then
            s:='1'+s
        else
            s:='0'+s;
    end;
res:=0;
for i:=1 to length(s) do begin
    if s[i]='1' then
        res:=res*2+1
    else
        res:=res*2;
end;
write(res);
end.

```

Задание5 (25/25 баллов)

```
program fifth;
var
    kol,n:longint;
procedure resh(dno:longint;zahvat:boolean);
begin
    if dno<=n then begin
        if zahvat=false then begin
            resh(dno+1,true);
            resh(dno+1,zahvat);
            resh(dno+1,zahvat);
        end else
            resh(dno+1,false);
        end;
    if dno=n then
        kol:=kol+1;
end;

begin
    readln(n);
    resh(0,false);
    if n=0 then
        kol:=0;
    writeln(kol);
end.
```

Задание6 (0/30 баллов)

```
program sixth;
var
  s:string;
  kol,n,dl,kolmax:longint;
procedure resh(dno,kol1,kol2,kol3,kol4,kol5:longint);
begin
  if dno<=n then begin
    if ((length(s))>=1) and (kol1<kolmax) then begin
      resh(dno+1,kol1+1,kol2,kol3,kol4,kol5);
    end;
    if ((length(s))>=2) and (kol2<kolmax) then begin
      resh(dno+1,kol1,kol2+1,kol3,kol4,kol5);
    end;
    if ((length(s))>=3) and (kol3<kolmax) then begin
      resh(dno+1,kol1,kol2,kol3+1,kol4,kol5);
    end;
    if ((length(s))>=4) and (kol4<kolmax) then begin
      resh(dno+1,kol1,kol2,kol3,kol4+1,kol5);
    end;
    if ((length(s))>=5) and (kol5<kolmax) then begin
      resh(dno+1,kol1,kol2,kol3,kol4,kol5+1);
    end;
  end;
end;
if dno=n then
  kol:=kol+1;
```

```

end;

var
    i,k,res:longint;
begin
    readln(s);
    readln(kolmax);
    n:=length(s)*kolmax;
    resh(0,0,0,0,0,0);
    writeln(kol,' ',kol*n);
    for i:=1 to 100000 do
        for k:=1 to 100000 do
            res:=0;
        end;
    end.

```

Задание7 (0/30 баллов)

```

program seventh;
var
    n,ch1,ch2,ch3,i,para:longint;
    resist,min:double;
begin
    readln(n);
    min:=2147483647;
    for i:=1 to n do begin
        readln(ch1,ch2,ch3);
        resist:=(ch1*ch2*ch3)/(ch1*ch2+ch2*ch3+ch1*ch3);
    end;
end.

```

```
    if resist<=min then begin
        min:=resist;
        para:=i
    end;
end;
write(para);
end.
```