

Поиск в массиве

```
var  a: array [0..100] of longint;
      i,k,n: longint;
begin
    assign (input,'input.txt'); reset(input);
    assign (output,'output.txt'); rewrite(output);
    for i:=0 to 100 do a[i]:=0;
    readln(n);
    for i:=1 to n do begin read(k); a[k]:=a[k]+1 end;
    k:=0;
    n:=0;
    for i:=0 to 100 do
        if k<a[i] then begin n:=i; k:=a[i] end;
    write(n);
end.
```

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Арифметика

```
var  a,n,k,i: longint;
begin
    assign(input,'input.txt'); reset(input);
    assign(output,'output.txt'); rewrite(output);
    read(a,n);
    if n=1 then k:=0
        else if a mod n = 0 then k:=0
            else k:= n - (a mod n);
    write(k);
end.
```

Клад

```
var  a,b,c,d,e,f: integer;

begin

    assign(input,'input.txt'); reset(input);

    assign(output,'output.txt'); rewrite(output);

    readln(a,b);

    readln(c,d);

    read(e,f);

    write(c+e-a,' ',d+f-b);

end.
```

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Шахматная доска

```
var  a,b: char;

      x,y,p,q: byte;

begin

    assign(input,'input.txt'); reset(input);

    assign(output,'output.txt'); rewrite(output);

    readln(a,x);

    read(b,y);

    p:=abs(ord(a)-ord(b));

    q:=abs(x-y);

    if p<q then p:=q;

    write(p);

end.
```

Робот-путешественник

```
var  s: string;
     a,b,x,y,n,i: integer;
begin
    assign(input,'input.txt'); reset(input);
    assign(output,'output.txt'); rewrite(output);
    x:=0; y:=0; a:=1; b:=1;
    read(s);
    n:=length(s);
    for i:=1 to n do
        begin if a=1 then
            begin if s[i]='L' then b:=-b;
                x:=x+b;
            end
            else
                begin if s[i]='R' then b:=-b;
                    y:=y+b;
                end;
                a:=-a;
            end;
        end;
    write(sqrt(x*x+y*y):1:6);
end.
```