Два кола

```
var x1,y1,r1,x2,y2,r2, d:real;
begin
     readln (x1,y1,r1,x2,y2,r2);
     d:=sqr(x1-x2)+sqr(y1-y2);
     if (x1=x2) and (y1=y2) and (r1=r2) then writeln (-1)
     else
     if (sqr(r1+r2)=d) or (sqr(r1-r2)=d) then writeln (1)
     else
     if (sqr(r1+r2)<d) or (sqr(r1-r2)>d) then writeln (0)
     else
     if (sqr(r1+r2)>d) or (sqr(r1-r2)<d) then writeln (2);
end.
```

Нова шафа

```
program E76;
var a,b,c,x,y,z:real;
begin
     readln (a,b,x,y,z);
     if ((x<a) and (y<b)) or   ((x<b) and (y<a)) or ((z<a) and (y<b)) or
     ((x<a) and (z<b)) or ((y<a) and (z<b)) or  ((z<a) and (x<b))
     then writeln (1) else  writeln (0);
end.
```

Турист

```
program E206;
var k,w,a1,a2,a3,b1,b2,b3:integer;
    n1, n2, n3, n4,
    m1, m2, m3, m4 : longint;
begin
     read (k,w);
     read (a1,b1,a2,b2,a3,b3);
     m1 := a1 + a2; n1 := b1 + b2;
     m2 := a1 + a3; n2 := b1 + b3;
     m3 := a3 + a2; n3 := b3 + b2;
     m4 := a1 + a2 + a3; n4 := b1 + b2 + b3;
    if ( (a1<=w) and (b1>=k) ) or
       ( (a2<=w) and (b2>=k) ) or
       ( (a3<=w) and (b3>=k) ) or
       ( (m1<=w) and (n1>=k) ) or
       ( (m2<=w) and (n2>=k) ) or
       ( (m3<=w) and (n3>=k) ) or
       ( (m4<=w) and (n4>=k) )
```

```
    then writeln('YES')
    else writeln('NO');

end.
```

Обмін

```
program E407;
var
   m, k, i: longint;
begin
  readln(m);
  for i := 1 to m do begin
    readln(k);
    if (k mod 3 = 1) then
       writeln('VGC');
    if (k mod 3 = 2) then
       writeln('CVG');
    if (k mod 3 = 0) then
       writeln('GCV');
  end;
end.
```

Рівень навчальних досягнень

```
program E902;
var x:integer;
begin
     readln (x);
     case x of
     1,2,3: writeln ('Initial');
     4,5,6: writeln ('Average');
     7,8,9: writeln ('Sufficient');
     10,11,12: writeln ('High');
     end;
end.
```

Парні і непарні числа

```
program E1623;
var
   a, b, c: longint;
begin
  readln( a,b,c);
```

```
    if ((a mod 2 = 1) or (b mod 2 = 1) or (c mod 2 = 1)) and
     ((a mod 2 = 0) or (b mod 2 = 0) or (c mod 2 = 0))
    then
       writeln('YES')
     else writeln('NO');

end.
```

Належність точки відрізку

```
program E2134;
var x1,y1,x2,y2,x,y:real;
begin
     readln (x,y,x1,y1,x2,y2);

     if sqrt(sqr(x1-x)+sqr(y1-y))+sqrt(sqr(x2-x)+sqr(y2-y))=sqrt(sqr(x1-
x2)+sqr(y1-y2))
     then writeln ('YES') else  writeln ('NO');
end.
```

Сума непарних чисел

```
var
 sum, A, B, count : int64;
BEGIN
readln(A, B);
if A mod 2 = 0 then inc(A);
if B mod 2 = 0 then dec(B);
count :=  (abs(B - A) + 1);
if count mod 2 = 1 then inc(count);
count := count div 2;
if count mod 2 = 0 then
sum := (A + B) * (count div 2)
else
sum := (A + B) * (count div 2) + (A + B) div 2;
writeln(sum);
END.
```

Нова гра Сергійка

```
program E1657;
var x1,y1,x2,y2,x3,y3,x4,y4,x,y:longint;
begin
 readln(x1,y1,x2,y2,x3,y3,x4,y4,x,y);

 if (x3 < x) and (x < x4) and (y4 < y) and (y < y3) then
```

```
    writeln('SAD')
 else
   if (x1 <= x) and (x <= x2) and (y2 <= y) and (y <= y1) then
        writeln ('HAPPY')
   else writeln('SAD');
 end.
```

Перша чи остання?

```
program E903;
var x,y,z: integer;
begin
  read(x);
  y:=x div 100;
  z:=x mod 10;
  if y>z
  then writeln(y)
  else if y<z
       then writeln(z)
       else writeln('=');
 end.
```