PL0 源程序

```
const    m = 7, n = 85;
var    x, y, z, q, r;
procedure    multiply;
   var    a, b;
   begin    a := x;    b := y;    z := 0;
      while b > 0 do
      begin
         if odd b then z := z + a;
         a := 2*a ;    b := b/2 ;
      end
   end;
procedure    divide;
   var    w;
   begin    r := x;    q := 0;    w := y;
      while w ≤ r do w := 2*w ;
      while w > y do
      begin    q := 2*q;    w := w/2;
         if w ≤ r then
         begin    r := r－w;    q := q+1 end
      end
```

```
    end;
procedure    gcd;
    var    f, g ;
    begin    f := x;    g := y;
        while f ≠ g do
        begin
            if f < g then g := g－f;
            if g < f then f := f－g;
        end;
        z := f
    end;
begin
    x := m;    y := n;    call multiply;
    x := 25;    y:= 3;    call divide;
    x := 84;    y := 36;    call gcd;
end.
```