```
 1: program TowersHanoi;
 2:
 3: function Power(base, toPower: Integer) : Integer;
 4: begin
 5:   if toPower = 0 then
 6:   begin
 7:     result := 1;
 8:     end
 9:   else
10:     begin
11:       result := base * Power(base, toPower -1);
12:     end;
13: end;
14:
15: function fib(n : Integer):Integer;
16: begin
17:   if (n < 2) then
18:   begin
19:     result := n;
20:   end
21:   else
22:   begin
23:     WriteLn('fibonacci ',n);
24:    result := fib(n-2) + fib(n-1);
25:   end;
26: end;
27:
28:
29: procedure MoveDisc (n, fromPole, toPole, tempPole: Integer);
30: begin
31:   if n > 0 then
32:   begin
33:     MoveDisc(n-1, fromPole, tempPole, toPole);
34:     WriteLn('move ', n, ' to ', toPole);
35:     MoveDisc(n-1, tempPole, toPole, fromPole);
36:   end;
37: end;
38: procedure Main();
39: begin
40:   MoveDisc(3, 1, 3, 2);
41:   WriteLn('------------------------------');
42:   WriteLn('Fibonnaci of number 9 is :',fib(9));
43:   WriteLn('------------------------------');
44:   WriteLn(Power(2,8));
45: end;
46:
47: begin
48:   Main();
49: end.
```