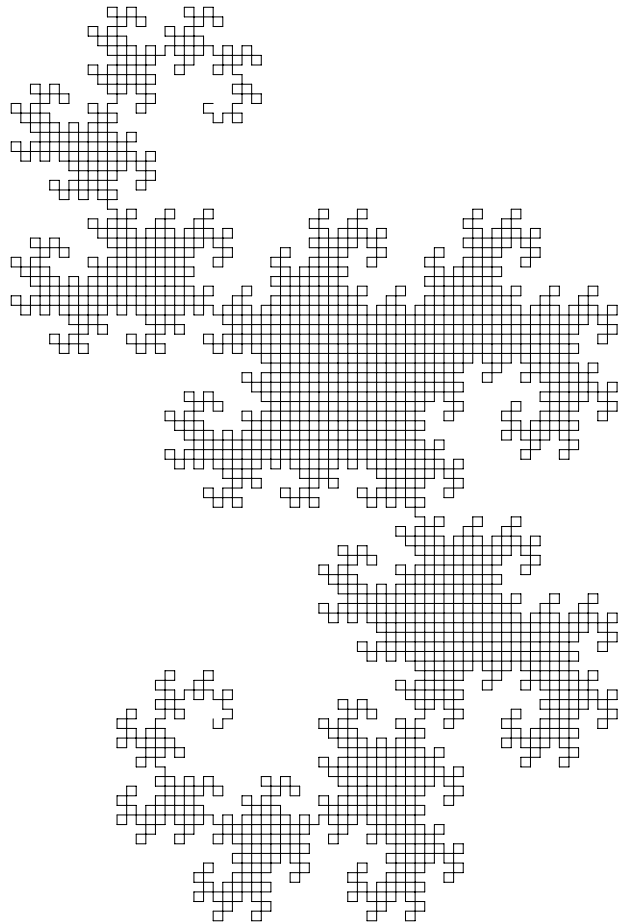
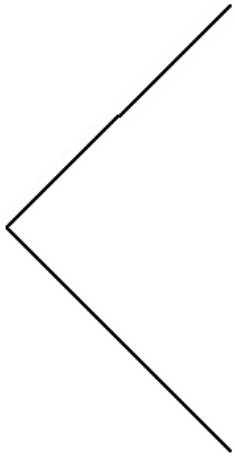


# 4096 Geraden And No Loop

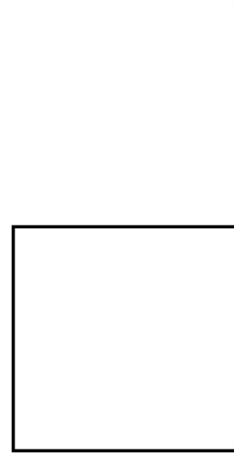




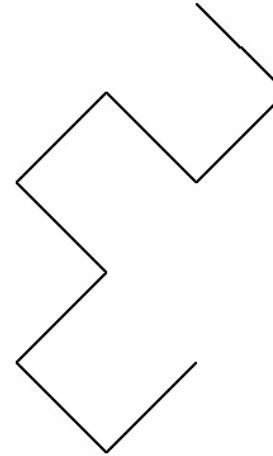
depth = 1



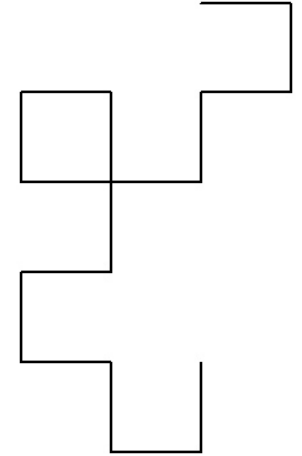
depth = 2



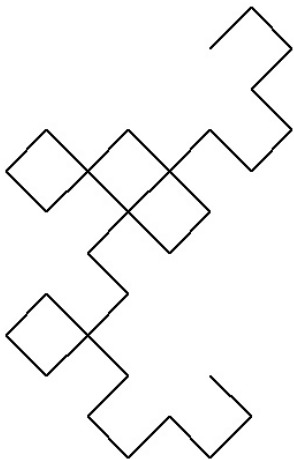
depth = 3



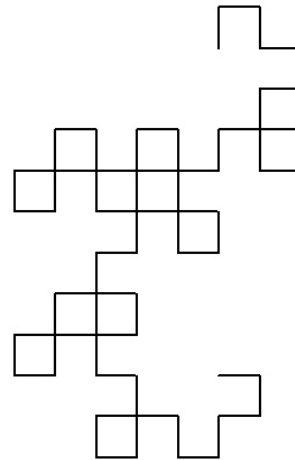
depth = 4



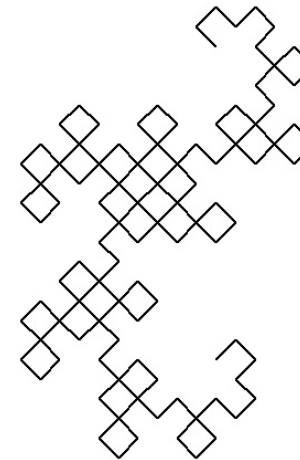
depth = 5

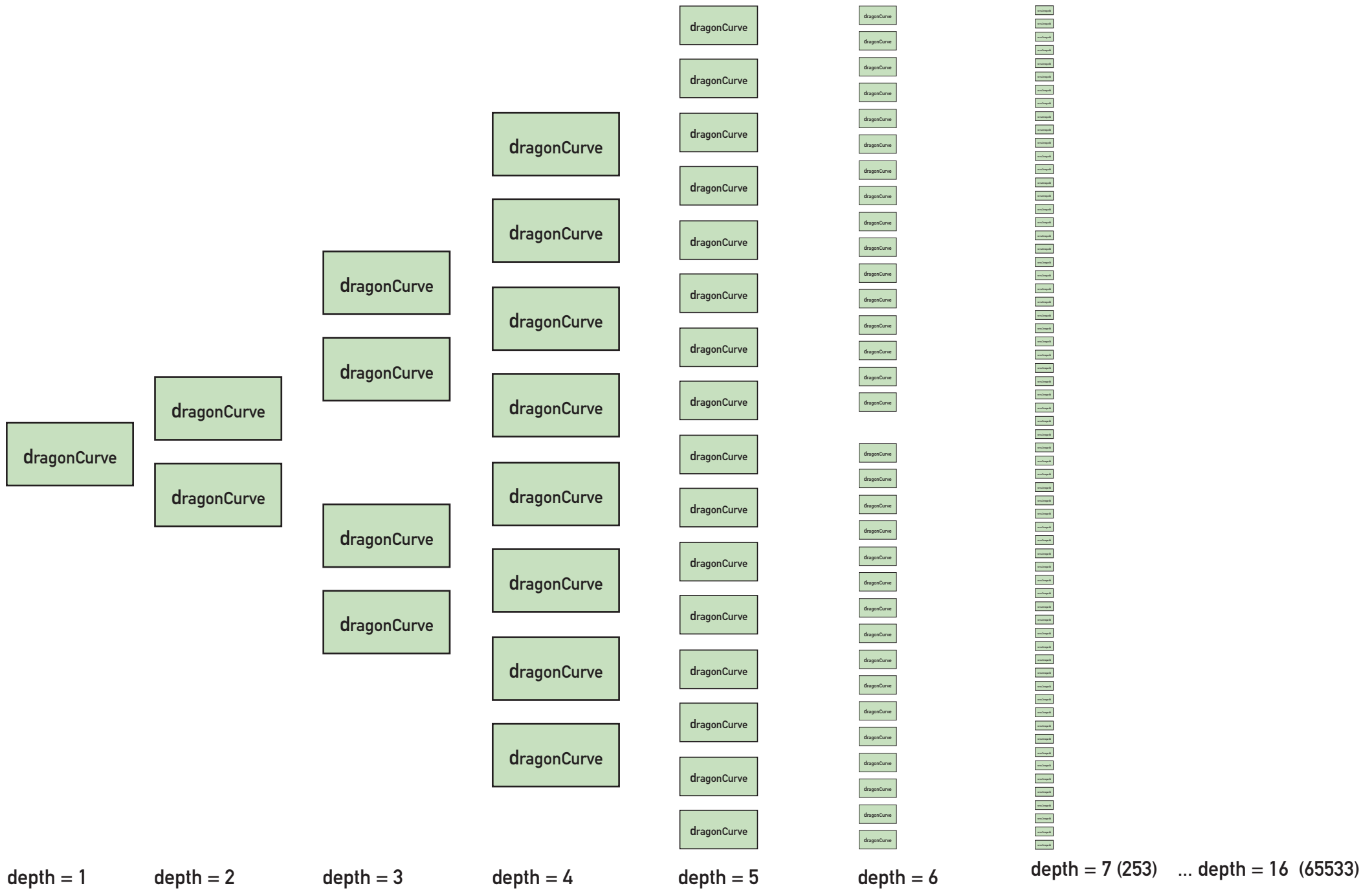


depth = 6



depth = 7





# How does it works?

```

PROCEDURE second;

VAR
    startPoint,endPoint:VECTOR;

{start procedure}
    PROCEDURE dragonCurve(pa,pb:VECTOR;depth:INTEGER);

        VAR
            vab,p1:VECTOR;
            abLength:REAL;

        BEGIN
            vab:=pb-pa;
            abLength:=Norm(vab);
            p1:=pa+(vab/2.0);
            p1:=p1+(Perp(vab/2.0));

            IF(depth=1) THEN BEGIN
                MoveTo(pa.x,pa.y);
                LineTo(p1.x,p1.y);
                LineTo(pb.x,pb.y);
            END ELSE BEGIN
                dragonCurve(pa,p1,depth-1);
                dragonCurve(pb,p1,depth-1);
            END;

        END;

    {end procedure}

BEGIN
    startPoint.x:=0;
    startPoint.y:=0;
    endPoint.x:=0;
    endPoint.y:=10;
    dragonCurve(startPoint,endPoint,16);

END;
run(second);
    
```

Wann wird etwas gezeichnet?  
Nur wenn die depth = 1 ist !!

Der Endpunkt bleibt immer gleich!