

Aim: How can we make recursive drawings?

Recursive Drawing

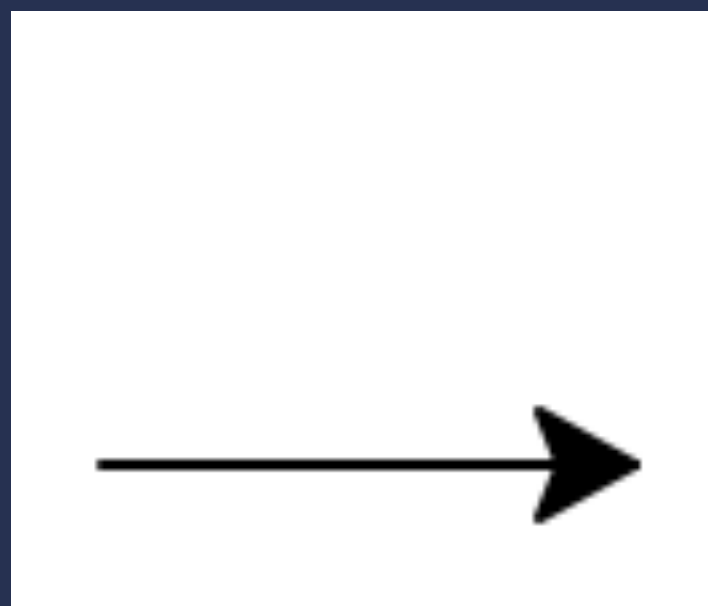
Recursive square spiral:

```
def square_spiral(t, size):  
    if (size > 0):  
        t.fd(size)  
        t.rt(90)  
        square_spiral(t, size - 5)
```

This function has an *implicit* base case when $\text{size} \leq 0$. We don't specifically say what to do in that case, instead, we specify what should be done only for the recursive case.

Fractals are geometric designs that are defined recursively. This spiral is a simple fractal.

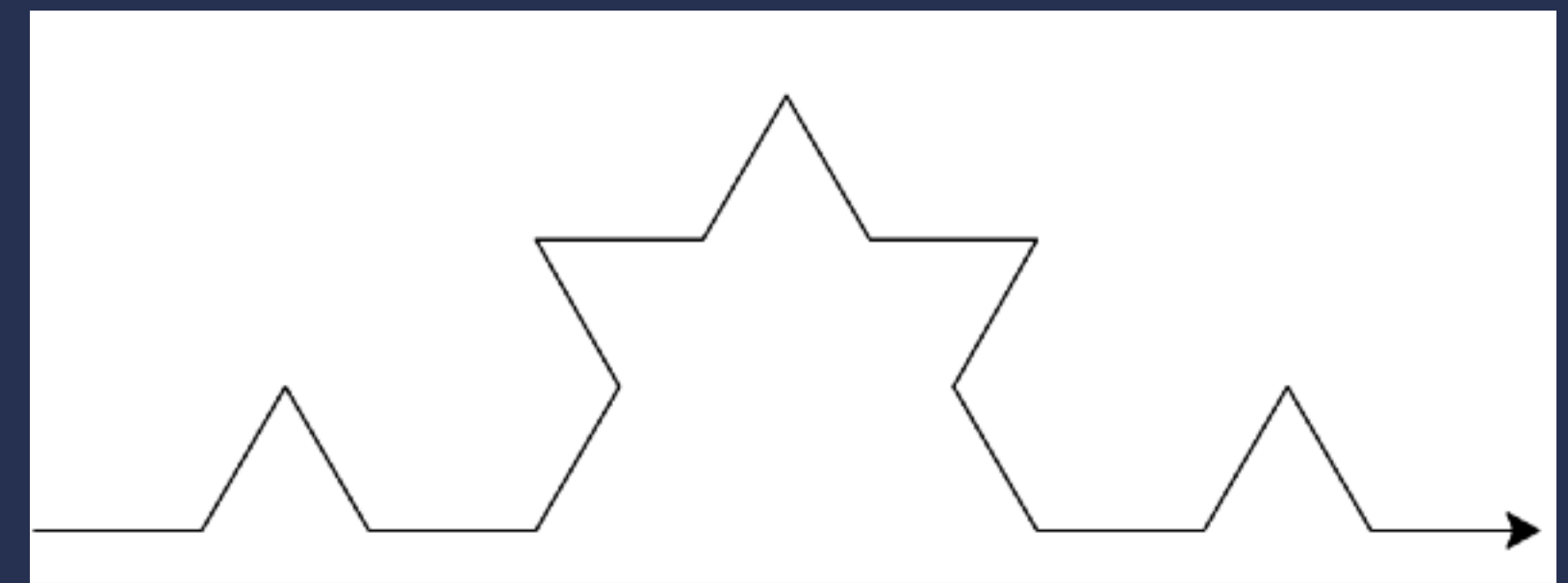
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depth = 0



depth = 1



depth = 2