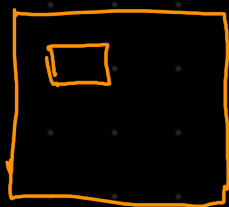


# Recursion

Concepts of functions → we can of course call different fn from inside a function

Can a function call itself as well? Yes



Stack

⇒ stack overflow

With this exercise 2 things are clear:

1. Functions wait in the memory till they are resolved
2. When a fn finishes execution, then only it comes of program and gets deleted from our stack.

Recursion is a function calling itself.

`print num()`  $\rightarrow$  `print num_jour()`

`print num()`  $\rightarrow$  `print num()`

'Recursion is when solution of a problem depends on some smaller problem.'

$5 \rightarrow 4 \rightarrow 3 \rightarrow 2 \rightarrow 1$

factorial of a num.