Recursion

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Agenda

- What is Recursion
- Recursion Tree
- Approach to recursive solution

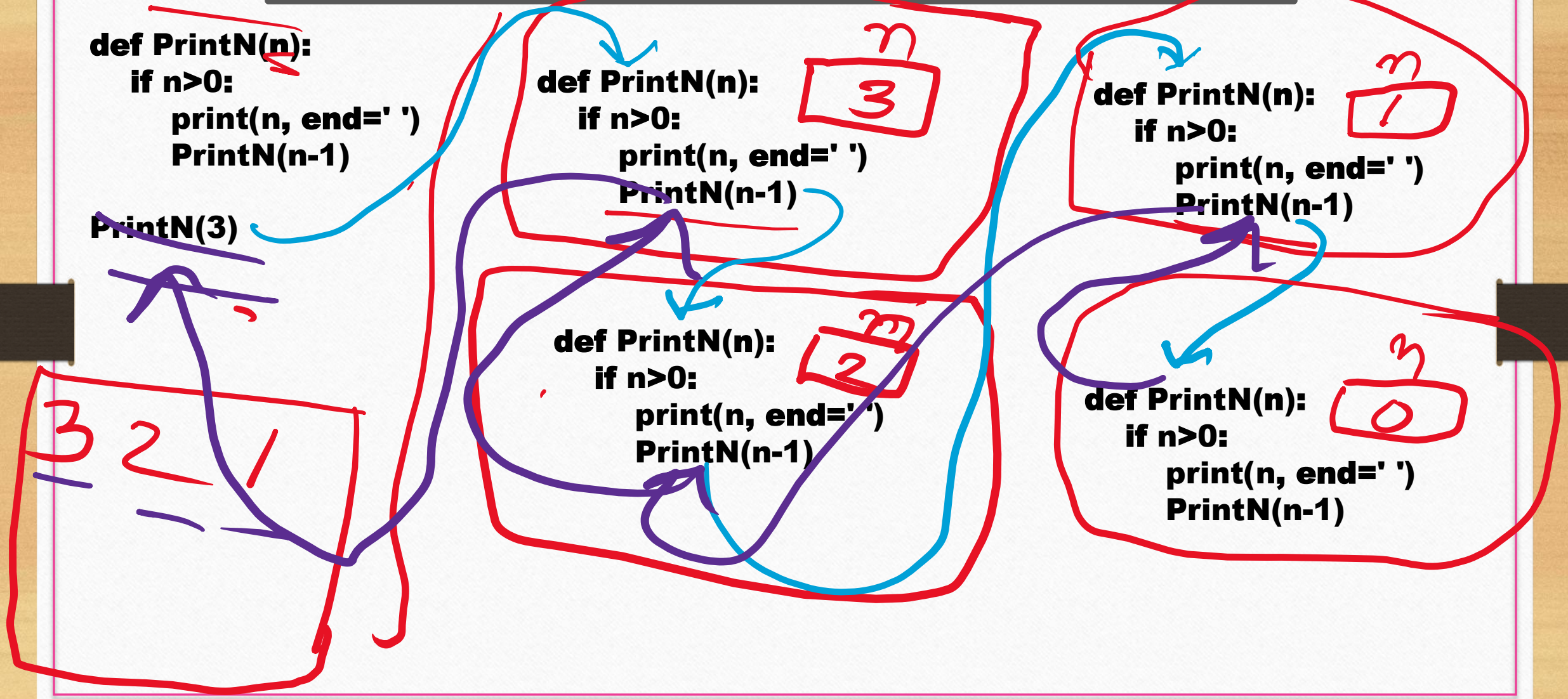
What is Recursion

- Function calling itself is called recursion
- A recursive method solves a problem by calling a copy of itself to work on a smaller problem
- It is important to ensure that the recursion terminates
- Recursive code is generally shorter and easier to write then iterative code

Recursion Tree

```
def PrintN(n):
    if n>0:
        print(n, end=' ')
        PrintN(n-1)

PrintN(3)
```



Approach to recursive solution