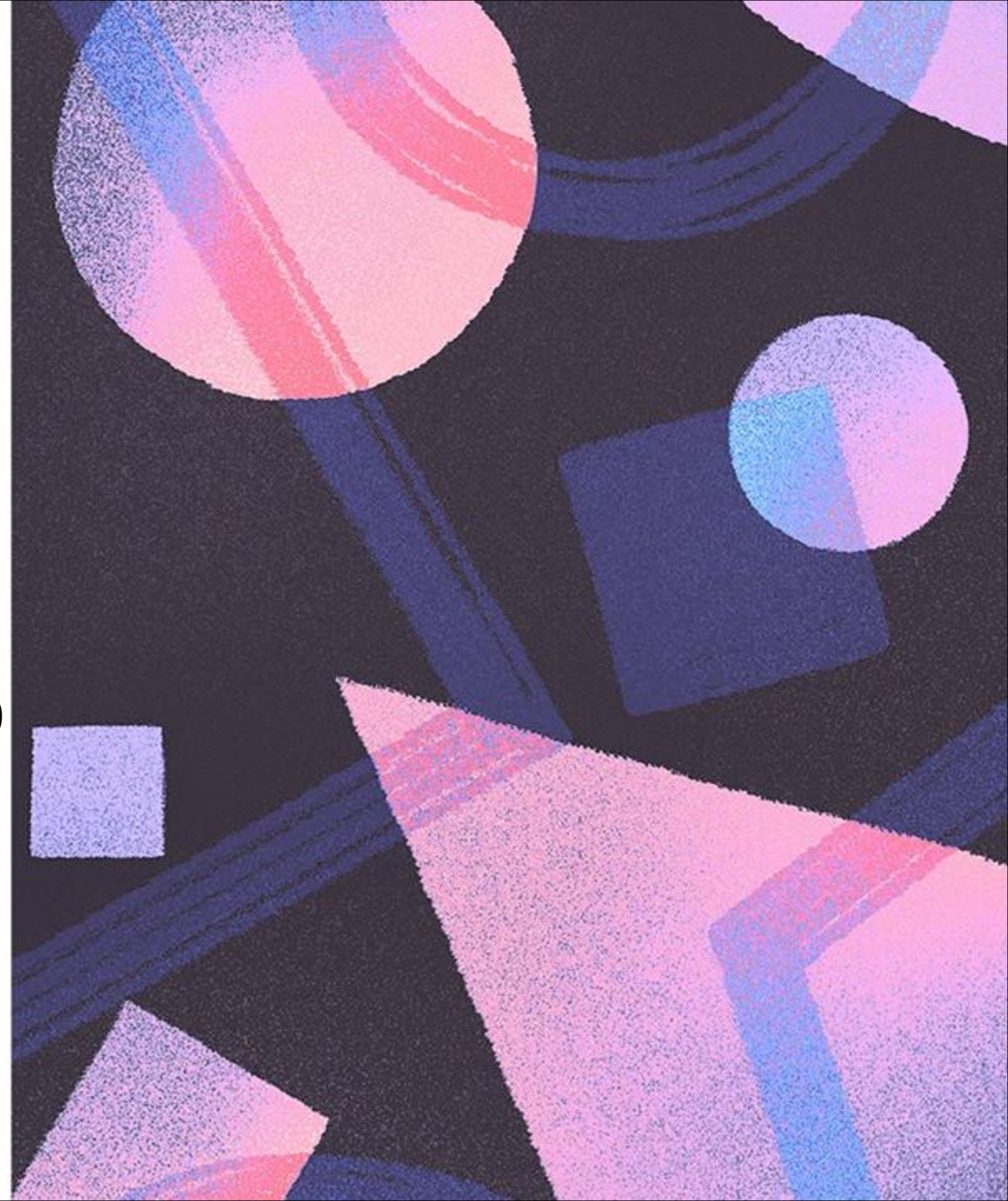


Data Structures Lab

Lecture 3



Recursion



CONTENT

01 PART

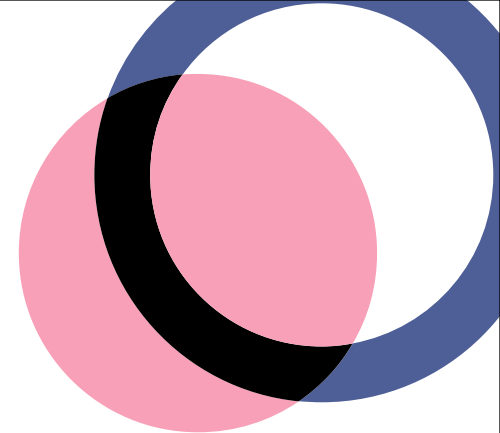
What is Recursion?

02 PART

How Recursive
Functions Work?

03 PART

Examples



01: What is Recursion?

Definition:

A process in which a method calls itself continuously.

- A method that calls itself is called recursive method.
- Recursion = Divide the problem → Solve a smaller version → Combine results.

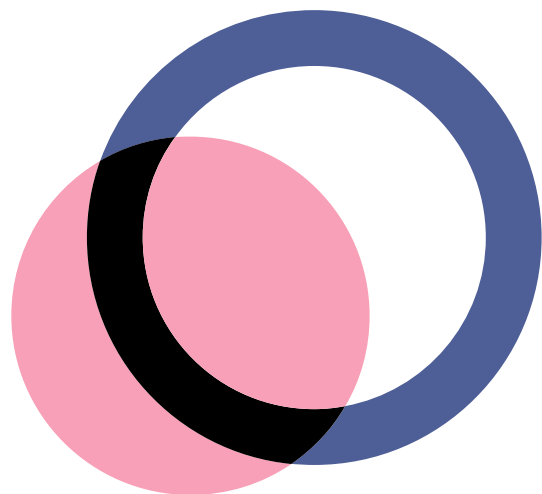


02: How Recursive Functions Work?

A recursive function must have:

1. Base Case: When to stop
2. Recursive Case: When to call itself again

Without a base case → infinite recursion → stack overflow.



**THANK
YOU**

