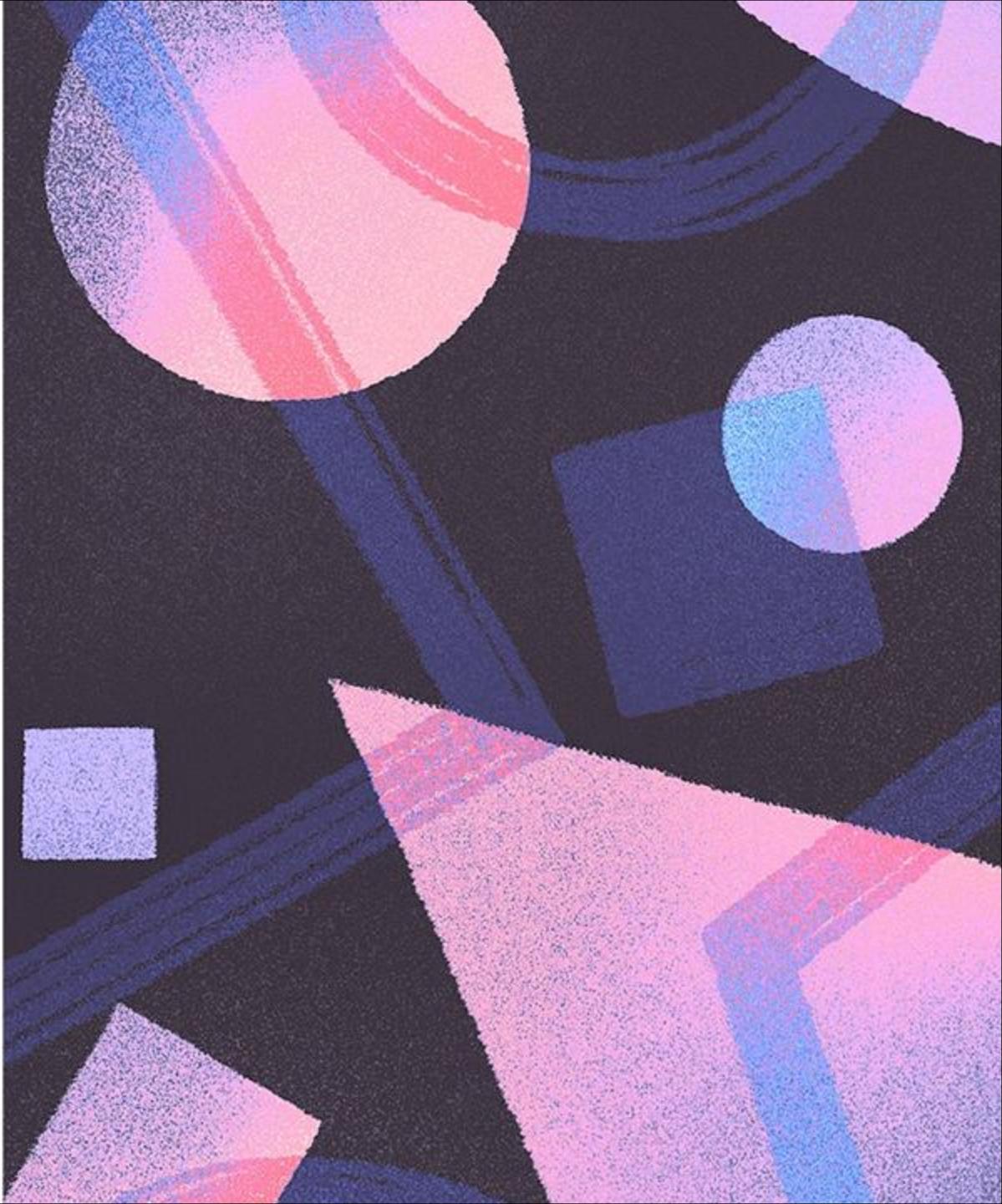


Data Structures Lab

Lecture 3

> Recursion



CONTENT

01

PART

What is Recursion?

02

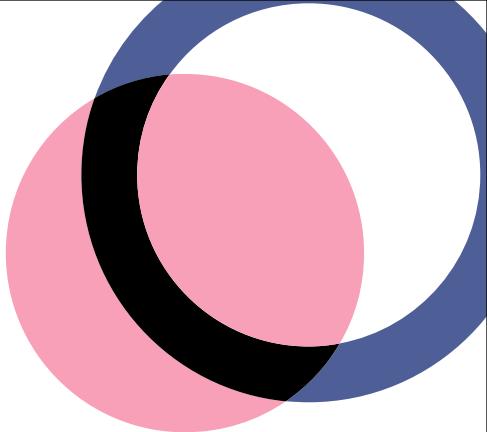
PART

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.

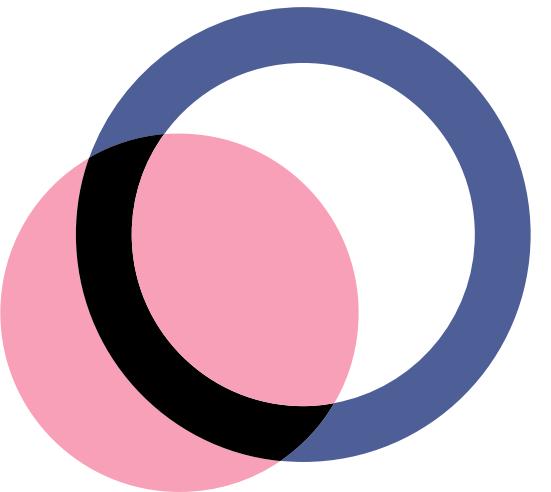


02: How Recursive Functions Work?

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**

