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Syllabus for C

Duration: 45 Days

Introduction and First Program

- ❖ Why Programming
- ❖ History of C Language
- ❖ "Hello World" Program

Variables and Data types

- ❖ Identifiers in C
- ❖ Variables and Datatypes
- ❖ Constants

Console IO Operations

- ❖ Printf and Scanf
- ❖ Unformatted IO Functions

Operators and Expression

- ❖ Expressions and Arithmetic Operators
- ❖ Relational and Logical Operators
- ❖ Bitwise Operators

Control Flow Statements

- ❖ If Statement
- ❖ While Loop
- ❖ Do While Loop
- ❖ For Loop
- ❖ Switch Statement
- ❖ Unconditional Branching using goto statement
- ❖ Break and Continue

Working with Functions

- ❖ Introduction and Writing Functions
- ❖ User defined Function
- ❖ System Defined Function
- ❖ Types of parameter passing in function
- ❖ Pass by Value and Pass by reference
- ❖ Recursion

Working with Arrays

- ❖ Arrays Declaration and Initialization
- ❖ Sample Programs using Array
- ❖ Arrays as Function Parameters
- ❖ 2-Dimensional Array

Pointers

- ❖ Introduction to Pointers
- ❖ Pointers as Function Parameter
- ❖ Pointer Arithmetic
- ❖ Pointers and Arrays
- ❖ Function Pointers
- ❖ Dynamic Memory Allocation using malloc, calloc and comparison with malloc
- ❖ Releasing of Free space

String Handling

- ❖ Introduction to String
- ❖ Sample Program
- ❖ Standard String Library Functions
- ❖ Array of String

Structures and Unions

- ❖ Declaring and Instantiating Structures
- ❖ Structure as Parameter and Pointer to Structure
- ❖ Enumerated Data Type
- ❖ Union
- ❖ Difference between Structure and Unions

File Handling

- ❖ What is a Stream
- ❖ Opening and Closing File
- ❖ Input / Output operations on File
- ❖ Random Access to Files
- ❖ Command Line Arguments

Storage Classes and Pre-processor

- ❖ Introduction of Storage Class
- ❖ Types of Storage Classes
- ❖ Introduction of Pre-processor
- ❖ Macro Substitution
- ❖ File Inclusion