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Fundamentals in C

- ◆ History of 'C'
- ◆ A Simple C Program
- ◆ Program execution phases
- ◆ Backslash character constants
- ◆ Character set
- ◆ Constants
- ◆ Number systems
- ◆ Format specifiers
- ◆ Identifiers
- ◆ Keywords
- ◆ Variables
- ◆ Data Types
- ◆ Declaration of Variable
- ◆ Assigning Values to Variables
- ◆ Initialization
- ◆ Comments
- ◆ Const Qualifier
- ◆ Basic Structure of a 'C' program
- ◆ Programming Examples

Operators and Expressions

- ◆ Arithmetic operators
- ◆ Increment and decrement operators
- ◆ Relational operators
- ◆ Logical operators
- ◆ The bitwise operators
- ◆ The assignment operators
- ◆ The conditional operator
- ◆ Type casting operator
- ◆ Precedence and order of evaluation

Data types

- ◆ Modifiers
- ◆ Format specifiers
- ◆ Dealing with each data types
- ◆ Memory representation of each type

Input-Output Library Functions

- ◆ Unformatted I-O Functions
- ◆ Single Character Input-Output
- ◆ String Input-Output
- ◆ Formatted I-O Functions
- ◆ Printf() Width Specifier
- ◆ Scanf() Width Specifier

Control statements

- ◆ Conditional Control Statements
- ◆ If
- ◆ If-else
- ◆ Nested If-else
- ◆ Else-if Ladder
- ◆ Multiple Branching Control Statement
- ◆ Switch-case
- ◆ Loop Control Statements
- ◆ While
- ◆ Do-while
- ◆ For Loop
- ◆ Nested Loops
- ◆ Jump Control Statements
- ◆ Break, Continue Statements
- ◆ Goto, Exit(), Return Statements

Function

- ◆ What is function?
- ◆ Advantages of using functions
- ◆ Function Prototype
- ◆ Defining a function
- ◆ Calling a function
- ◆ Return statement
- ◆ Types of functions
- ◆ Recursion
- ◆ Nested functions
- ◆ Main() function
- ◆ Local and global variables

Arrays

- ◆ Arrays Declaration and Initialization
- ◆ Sample Programs using Arrays
- ◆ 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

String Handling

- ◆ Introduction to Strings
- ◆ Sample Program
- ◆ More Sample Programs
- ◆ 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
- ◆ Bit Fields

File Handling

- ◆ What is a Stream.
- ◆ File Handling-Writing and Reading
- ◆ Characters.
- ◆ Writing and Reading Structure in
- ◆ Text Format.
- ◆ Writing and Reading in Binary Format

Pre-Processor Directives

- ◆ Understanding Pre-Processor directives
- ◆ Header Files and Project

Command Line Arguments and Variable Arguments

- ◆ Command Line Argument
- ◆ Variable Number of Arguments

Searching and Sorting

- ◆ Linear Search
- ◆ Iterative Binary Search
- ◆ Recursive Binary Search
- ◆ Bubble Sort
- ◆ Selection Sort
- ◆ Insertion Sort
- ◆ Quick Sort
- ◆ Merge Sort

Stack

- ◆ Introduction to Data Structures
- ◆ Stack Using Arrays
- ◆ Stack Using Linked List
- ◆ Infix to Postfix Expressions

Queue

- ◆ Queue Using Arrays
- ◆ Queue Using Linked List

Linked List

- ◆ Introduction to Linked List
- ◆ Single Linked List
- ◆ Double Linked List
- ◆ Circular Linked List

Trees

- ◆ Introduction to Trees
- ◆ Programming Tree - 1
- ◆ Programming Tree - 2

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