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C Curriculum

Introduction

What is a program?

What is a programming language?

Steps in Programming

Skills needed to do programming

A little introduction to C

Writing a Program

Fundamentals of a Programming Language

Different Programming Techniques

Procedural Programming

Modular Programming

Object Oriented Programming

Getting started with compiler

Words and Sentences in C language

Alphabets in C

Keywords in C

Rules of forming Words in C language

Data Variables, Data Types and Rules for naming and declaring data

Variables

Basic Data Types in C

Constants

Comments in C

C Instructions and Rules for Writing

Types of instructions
Data Manipulation Instructions
Input/Output Instructions

Operators in C

Assignment operator Mathematical operators

Unary Increment and Decrement operators

Relational operators

Logical operators

Bitwise operators

1's complement operator Right shift operator

Left shift operator

Bitwise AND operator

Bitwise OR operator

Bitwise XOR operator

Control Structures

Flow Control Instructions

Decision Control Instructions

If

If-else

If-else-if

Nested if-else

Flow Control Instructions

Loop Control Instructions

For Loop

While Loop

Do While

Break

Continue

Functions

Why use Functions Components of Function Name of a function Body of a function Local variables of a function Parameters or Arguments to a function Return Values Prototype of a function

Arrays

What is an array?
Array Declaration
Array Initialization
Accessing individual elements of an array
Two Dimensional Arrays
Passing an array element to a function
Rules of using an array

Pointers

What is a pointer?
Declaring a Pointer variable
Initializing a pointer variable
Using a Pointer Variable
Pointer Arithmetic
Pointers and array
Passing an entire array to a function

Strings

What are strings?
String I/O
String Manipulation Functions

Structures

Declaring and Accessing Structure variables Uses of Structures Unions

Storage Classes and Scoping

Automatic

Register

External

Static

Scope of a Variable

File Input/Output

File operation

Opening a File

Writing into File

Reading a File

Closing File

Counting Characters, Tabs, Spaces

File opening modes

Writing String/Lines into I/O

Dealing with Text and Binary files