

PECD(Placement enabled C and DS)

Data Type, Constants & Variables

What is Data Types?

Integers, long and short

Integers, signed and unsigned

Chars, signed and unsigned

Floats and Doubles

Constants, Variables Keywords

How to get input from user How to display output to user

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Statement

IF-Else Statement

Switch

Loops,Break,Continue

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Function

What is a Function in C Language

Passing Values between Functions in C Language

Call by Value in C Language

Call by Reference in C Language

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Pointer

An Introduction to Pointers

Pointer Notation in C Language

Back to Function Calls in C Language

Recursion in C Language

Pointer types

Null pointer

Dangling pointer

Wild pointer

Function pointer

Constant pointer

Miscellaneous pointer

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Preprocessor

The C Preprocessor in C Language

Features of C Preprocessor

Macro Expansion in C Language

Macros with Arguments

Macros versus Functions

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Arrays

What are Arrays in C Language

A Simple Program Using Array

How to Initialize Array in C Language

Passing Array Elements in C Language to a Function

Pointers and Arrays in C Language

Passing an Entire Array to a Function in C Language

Two Dimensional Arrays in C Language

Initializing a 2-Dimensional Array

Pointers and 2-Dimensional Arrays

Pointer to an Array

Passing 2-D array to a Function

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String

What are Strings in C Language

How to get length of a string in C Language using strlen()

How to copy a string in C Language using strcpy()

How to concatenate a string in C Language using strcat()

How to compare two string in C Language using strcmp()

Structures

What is Structures in C Language

Why Use Structures in C Language

Declaring a Structure in C Language

Accessing Structure Elements in C Language

Array of Structures in C Language

Additional Features of Structures

Uses of Structures

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File Operation

File Operations in C Language

Opening a File in C Language

Reading from a File in C Language

Closing the File in C Language

Counting Characters, Tabs, Spaces,

A File-copy Program in C Language

Writing to a File in C Language

File Opening Modes

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Data structure using C

Stack and queue

Implementation of Stacks using Arrays

Implementation of Stacks using Linked List

Infix, Prefix and Postfix Expressions

Application of stack

Implementation of Queues using Arrays

Implementation of Queues using Linked List

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Linked list

Single Linked List

Circular Linked List

Doubly Linked List

Polynomial operation using link list

Tree and Graph

Binary Trees

Binary Search Trees

Complete binary tree

Tree traversal

Height balanced tree

Graph terminology

Directed Graphs, Undirected Graphs

Graph traversal – BFS, DFS

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Searching and sorting

Searching Techniques – Linear, Binary

Sorting Techniques – Bubble, Insertion

Selection, Quick, Heap and Merge

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