

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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