

C & Data Structures Course to Ace the Interview for BCA / B.Tech / MCA Students :

S.no	Subject	Topic Has To cover
1	C Basics	Header files in C, main() function in C, printf() & scanf() in C & other functions for input & output purpose, getch() & getche() functions & their uses
2	Looping & Conditions	Looping & Conditions programs, uses & advantages, Interview Questions on Looping & Conditions.
3	Arrays	Arrays concepts, inputs & output of arrays elements, sorting + searching in Arrays, find out no of repeated elements in array & accept & only unique elements in array. Remove duplicate elements from array, double dimension array, sum of 2 matrix & multiplication of 2 matrix.
4	Functions	Functions in C, User define functions, functions example, recursion.
5	Sorting & Searching.	Linear & Binary Search, Selection Sort, Bubble Sort, Insertion Sort, Merge Sort, Heap Sort, Quick Sort.
6	String Handling in C	Strings in C, String handling in C using in build/library functions & without library functions(own code), Sorting & searching with String, count no of repeated characters in a string
7	Pointer	Pointers in C, Type of Pointers, Dynamic Memory Allocation in C using malloc(), calloc(), realloc() & free() functions, Interview questions on pointers.
8	Structure, Union & enum	Structure, unions & enum in C, their examples, structure array, structure within a structure, diff b/w structure & union, structure with Pointers.
9	LinkedList	Single LinkedList with All Operation - with insertion using LIFO + FIFO + add element in Mid of List before or after a particular node + Delete existing elements from List + implement sorting algos with List.
10	Double LinkedList	Double LinkedList with All Operation - with insertion using LIFO + FIFO + add element in Mid of List before or after a particular node + Delete existing elements from List + implement sorting algos with List.
11	Stack, Queue	Stack introduction, Stack implementation using Array & Pointer/List, Expression conversion from Infix to prefix or postfix, prefix & postfix to Infix using Stack, Expression Evolution using Stack Queue Implementation using Array & Pointer/List , implementation Simple Queue, Circular Queue, Double ended queue, Priority Queue, implementation of Simple Queue,
12	BST & AVL Tree, B+ Tree	BST (Binary Search Tree) - add new node inBST + delete Node from BST + searching elements in BST, Traversing in BST with inorder , preorder & post order, AVL Tree, Balance factor, B+ Tree
13	Graph	Graph Theory, uses of Graph, BFS and DFS in Graph, Prim's and Kruskal's algorithm for MST, finding the shortest path in Graph
14	File Handling	File Handling with all operations
15	Project Designing using C	Project Designing using C Language.
16	Project Designing using C	Project Designing using C Language.

- * All Topics covered with interview questions & daily (subjective / objective) tests.
- * We will check performance of all students on daily basis.
- * 40 – 45 hours Interview Preparation Course for BCA / B.Tech / MCA Students.