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| --- | --- | --- | --- | --- | --- |
| **Session** | | | **Discussion Topics** | **Comments** | **Work/** Assignment |
| **…** | | | **Before MID TERM, We’ll Cover session-7, In Shaa Allah** | | **…** |
| 01 | | | **Basic C**  (Printf, Hello world, Comments, Token, Structure)  Intro with **beecrowd, codeforce**  Problem: **Beecrowd-1000** | 1 Hour | 001 |
| 02 | | | **Data Types** (Scanf, different Value Assign, Variable, Format Specificifier, Problem of Char Input, Dobule Precision Output)  Problem: **Beecrowd-1002 to 1005**  **CodeForce: A, B from Sheet-1** | 3 Hours+ | 002 |
| 03-A | | | Intro with **vjudge.net** & demo contest | 1 Hour | … |
| **Contest- 001** | | | | **1 Hour** | **…** |
| 03-B | | | ….. | 0 Hour | … |
| 04 | | | Discussion on **Contest- 001**  Operators (A.**Arithmetic**, B.**Relational**, C.**Logical**, D.**Bitwise**, E. Assignment, F. **Conditional**, G.**Special**), **if-else,** Operators Precedence in C  **Problem: CodeForce: Sheet-1** | 1 Hour | 003 |
| 05 | | | 3 Hours |
| **Contest- 002** | | | | **2 Hours** | **…** |
| 06 | | | Discussion on **Contest- 002**  Loop (While, do while, for loop), **Types of loop,** Intro, Syntax, Examples of loop, **Nested loop, Infinite Loop, Loop Control Statements(**break, continue, goto, auto**)**  **Problem: CodeForce: Sheet-2** | 1 Hour | 004  005 |
| 07 | | | 3 Hours |
| **Contest- 003** | | | | **2 Hours** | **…** |
| **…** | **After MID TERM, There will be a long contest on Session 1 to 7** | | | | **…** |
| **Long Contest- 004** | | | | **72 Hours** |  |
| 08 | | **Number Theory** (**GCD**, **LCM**, **Prime Number** OR Not, Prime Number in Range, **Fibonacci** Series, Armstrong number, **Palindrome** number), **Type Casting** | | 2 Hours | 02 |
| 09 | | **Array** (All about Array), **Array Sum & Average**, **Sort** (Ascending, Descending), **Searching**, Reverse, Large Number in an Array, Smallest Number in an Array, **Two & Multidimensional Array**  **Problem: CodeForce: Sheet-3** | | 3 Hours |  |
| 10 | | Sorting Algorithm (**Bubble Sort**), **Swap** | | 1 Hour |  |
|  | |  | |  |  |
| 11 | | **String**, Some **String Handling Functions** Handmade & Built-in Function (strcpy, strcat, strlen, strcmp, strchr, strstr, strrev)  **Problem: CodeForce: Sheet-4** | |  |  |
| 12 | | **Function**, Advantage of functions in C, Library Functions, **User-defined functions** & mostly used **Header files**  **Problem: CodeForce: Sheet-5** | |  |  |

#include<stdio.h> //header file

int main()

{

printf("Hello World!\n"); // for output

return 0;

}