

Session 20 : (Part 1 of 2) 2D Array (Done)

Video:

https://drive.google.com/file/d/1_XUH6WfyHqIVbwQ-6T6HCUcgCOMtOTdE/view

Description:

ASSIGNMENT:

Problem: G, S, W from Newcomer Sheet - 3

[<https://codeforces.com/group/MWSDmqGsZm/contest/219774>]

CONTENT:

00:00 – Sheet #3_G - Statement
00:54 – Sheet #3_G - Solution
12:02 – Basic Concept of 2D Array
20:01 – Sheet #3_S - Statement
21:26 – Sheet #3_S - Solution, 2D Array Input
28:09 – 2D Array Output
30:00 – 2D Array Size and Memory allocation in RAM
35:00 – Column-wise 2D Array Output
44:25 – Summation of elements in main diagonal
47:12 – Summation of elements in second diagonal
50:22 – Addition of two matrices
53:31 – Task: Sheet #3_S, #3_W
53:57 – Sheet #6_N - Statement
59:56 – Sheet #3_S - Solution

Session 21: Multidimensional Array (Done)

Video:

https://drive.google.com/file/d/1DnPBfn_zZyJ8QQYvmGC3WhRqm6BouoGw/view?usp=sharing

Description:

CONTENT:

00:10 – Visualizing 3D Array

03:08 – Approaching in a different way

07:57 – One more alternative way of thinking

Session 20 (Part 2 of 2): 2D Array related problems explanation (Done)

Video:

<https://drive.google.com/drive/folders/12XwVCFyeM329zJ2N5yQEWwKzkNtuC0-v>

Description:

ASSIGNMENT:

Try Problem : 1 - 10 from 2D Array Problem Sheet.

[https://drive.google.com/file/d/1TBDlp3EXB02uulYbvjGVbKPAAdKhZKNCi/view?usp=drive_web&authuser=0]

Submit your solutions of the problems of the above problemset in this contest (It contains same problemset of the above pdf): <https://www.hackerrank.com/2d-array-2>

CONTENT:

00:00 – Problem : 1 - Statement
01:52 – Problem : 2 - Statement
03:04 – Problem : 3 - Statement
04:24 – Problem : 4 - Statement
06:12 – Problem : 5 - Statement
07:11 – Problem : 6 - Statement
10:54 – Problem : 7 - Statement
11:37 – Problem : 8 - Statement
13:10 – Problem : 9 - Statement
13:43 – Problem : 10 - Statement

Session 22 (Part 1 of 2) : Array and 2D Array related problems solution (Done)

Video:

<https://drive.google.com/file/d/1kdqCOsxmHhj5LFcr79McVn1BW3ByPjZh/view?usp=sharing>

Description:

ASSIGNMENT:

Solve Problems: H, K, R of Newcomer Sheet - 3

<https://codeforces.com/group/MWSDmqGsZm/contest/219774>

Solve Problem : 4 - 6 from 2D Array Problem Sheet.

[https://drive.google.com/file/d/1TBDlp3EXB02uulYbvjGVbKPAAdKhZKNCi/view?usp=drive_web&authuser=0]

CONTENT:

00:00 – Sheet #3_H - Statement, Selection Sort Algorithm

09:30 – Sheet #3_H - Solution

15:35 – Sheet #3_K - Statement

18:14 – Sheet #3_R - Statement

20:50 – Sheet #3_R - Solution

34:33 – 2D Array Sheet Problem 6 - Statement

36:50 – 2D Array Sheet Problem : 6 - Solution

42:39 – 2D Array Sheet Problem : 5 - Statement

50:32 – 2D Array Sheet Problem : 5 - Solution

58:13 – 2D Array Sheet Problem : 4 - Statement

59:45 – 2D Array Sheet Problem : 4 - Solution

Session 23 (Part 1 of 2): String (Done)

video:

https://drive.google.com/file/d/1-_i_6fbSM8lZn85PIDA7_vwwXpYaRIFo/view

Description:

ASSIGNMENT:

Solve Problems A - D from Newcomer Sheet - 4

<https://codeforces.com/group/MWSDmqGsZm/contest/219856>

CONTENT:

00:00 – Basic Concept of String

03:38 – String Input and Output

06:00 – Inputting a whole line

10:17 – gets() function

12:30 – String in memory

24:53 – strlen() function

29:02 – Output string using loop

29:37 – task: Sheet #4_A-D

Session 23 (Part 2 of 2): String (Done)

video:

https://drive.google.com/file/d/1EauQNgB4EfSkOaMat_NcF0D_Q4Q2PeWe/view?usp=sharing

Description:

ASSIGNMENT:

Try Problems A - J from Newcomer Sheet - 4

[\[https://codeforces.com/group/MWSDmqGsZm/contest/219856\]](https://codeforces.com/group/MWSDmqGsZm/contest/219856)

CONTENT:

00:00 – strcpy() function

05:31 – strcat() function

11:19 – Sheet #4_D - Solution

19:54 – Exploring Lexicographical order

23:54 – strcmp() function

32:58 – Challenges with string manipulation

45:24 – Sheet #4_E - Statement

48:02 – Task: Sheet #4_A-J

Session 22 (Part 2 of 2) : Array and 2D Array related problems solution (Done)

Video:

<https://drive.google.com/file/d/1mYLWja3CAi2vYF-JfykncceeFx7LZsN4/view?usp=sharing>

Description:

ASSIGNMENT:

Solve problem: P, Q, S, W from Newcomer Sheet - 3

[<https://codeforces.com/group/MWSDmqGsZm/contest/219774>]

CONTENT:

00:00 – Sheet #3_P - Statement

03:55 – Sheet #3_Q - Statement

11:38 – Sheet #3_S - Statement

15:42 – Sheet #3_W - Statement

Session 24: 2D String (Done)

Video:

<https://drive.google.com/file/d/1O6asMuJPONsyf7x0dcafLM40-ZJmNB0P/view?usp=sharing>

Description:

ASSIGNMENT:

Problem: X from Newcomer Sheet - 3

<https://codeforces.com/group/MWSDmqGsZm/contest/219774>

CONTENT:

00:00 – Basic Concept of 2D String

07:13 – Input and Output

14:33 – String matching

18:42 – Sort multiple strings

26: 27 – Sheet #3_X - Statement

32:32 – Visualizing 2D string in a Matrix

39:20 - Sheet #3_X - Solution

Session 25 (Part 1 of 2): Function (Exists in YT)

Video:

<https://www.youtube.com/watch?v=2oMemXI4nx0&list=PLFxy2GUHK0ams5myVO5DDXW8gxuCn2T28&index=39>

Session 25 (Part 2 of 2): Function (Done)

Video:

<https://drive.google.com/file/d/120m0zsIBPs3EMpaDsk85Gdetuvu5ZZt5/view?usp=sharing>

Description:

CONTENT:

00:00 – void function
02:31 – pass by value
07:06 – pass by reference
23:42 – Passing string to function
27:32 – return string from function

Session 26 (Part 1 of 3): Recursion (Done)

Video:

<https://drive.google.com/file/d/1v4zhE198UsvBXFgNvJBn3uJMra-FU5Vd/view?usp=sharing>

Description:

CONTENT:

00:00 – Basic Concept of Recursion

22:16 – Fibonacci Series

Session 26 (Part 2 of 3): Recursion (Done)

Video:

<https://drive.google.com/file/d/1-qnzErw4WUQEBVDeGhmjbxJDBDCrV-Qc/view?usp=sharing>

Description:

CONTENT:

00:00 – nCr

04:53 – Pattern printing

27:43 – Digit sum

Session 26 (Part 3 of 3): Recursion (Done)

Video:

<https://drive.google.com/file/d/1fYSTbhz8DhV3gMkgUHeCP4UVMpWvDMS/view?usp=sharing>

Description:

ASSIGNMENT:

Solve Problem I, N from Newcmer Sheet - 7

[<https://codeforces.com/group/MWSDmqGsZm/contest/223339>]

CONTENT:

01:04 – Sum of array elements

19:15 – Sheet #7_I - Solution

29:43 – Sheet #7_N - Solution

Session 27 (Part 1 of 3): File Handling (Done)

Video:

https://drive.google.com/file/d/1k7bdg_BCy4RpUxvf4gBZo4m2AywoI9KV/view?usp=sharing

Description:

CONTENT:

00:00 – Introduction : Why to use file?
09:41 – Read from a file
30:45 – Handling Error while trying to read a non-existing file
37:10 – write in a file
46:47 – “Score Updation problem” statement
49:38 – destroy file using “w” mode
56:27 – “Score Updation problem” solution

Session 27 (Part 2 of 3): File Handling (Done)

Video:

https://drive.google.com/file/d/1ctQXf2IVzYLHxy9eD_ICwR_P--EFaAu-/view

Description:

CONTENT:

00:00 – CRUD application Explanation
03:35 – Read application
07:38 – Update application
14:00 – Read application using function
16:58 – Delete application
25:46 – Create application
29:10 – Write application using function

Session 28 (Part 3): Structure (Done)

Video:

https://drive.google.com/file/d/1XKCvvdP_CObvPnyrxfstQtdfNkxe_Ko/view?usp=sharing

Description:

CONTENT:

00:00 – Basic Concept of Structure

24:07 – Structure arrays

32:03 – Sorting structure arrays

Session 27 (Part 3 of 3): File Handling (Done)

Video:

<https://drive.google.com/file/d/17OcaD2CCe9Y0LVxfZ0mqeHB4tHxr8rQP/view?usp=sharing>

Description:

CONTENT:

00:00 – Creating a system
03:15 - Read application
07:52 - Delete application
20:00 - Update application
21:58 - Create application
23:57 - show function
25:18 - search function
30:36 - sort based on certain criteria
32:44 - split information based on certain specification
35:13 - An overview : Problem solving in application

Session 29: Storage class (Done)

Video:

<https://drive.google.com/file/d/1HChWaNS9a8ZP8Sw-vYjUbm7pATU-LsPD/view?usp=sharing>

Description:

CONTENT:

00:00 – Storage Class Types
01:11 – Storage Class Properties
01:47 – auto type
13:59 – static type
23:20 – Calculating Program duration using clock library
28:06 – register type
35:03 – extern type

Session 30 (Part 1 of 2) : Pointer (Done)

Video:

https://drive.google.com/file/d/1u9G7hsf5_eRX4_Ck8kNA21CUofPF_Ua1/view?usp=sharing

Description:

CONTENT:

00:00 – Basic Concept of Pointers
10:21 – Address and Size of pointers
17:06 – Pointer type variable
28:30 – Pass by value
32:26 – Pass by reference
43:50 – Error handling with Pointers
46:17 – Pointer Arithmetic
56:52 – Alternative Notation for pointers
01:05:20 – Relation between arrays and pointers

Session 30 (Part 2 of 2) : Pointer (Done)

Video:

<https://drive.google.com/file/d/12Ocyo3g9YEW71rMr8AmvNb0Sp2oEUXd9/view>

Description:

CONTENT:

00:00 – Dynamic Memory Allocation

Session 31: Return multiple values from a function (Done)

Video:

<https://drive.google.com/file/d/1zcmWnLeWRndcgIPPagIFqTVuvOFWjHE1/view>

Description:

CONTENT:

00:00 – Using global variable

02:07 – Passing addresses using pointer

04:12 – using structure

Session 32: Bitwise Operation (Done)

Video:

<https://drive.google.com/file/d/1Y8vcrsbV4EAH2GeWFMG3oCILJbUtuYyq/view>

Description:

CONTENT:

00:00 – Types of bitwise operator
02:34 – Binary representation of a decimal number
07:24 – AND operator
12:03 – OR operator
17:25 – XOR operator
21:35 – NOT operator
25:20 – Left Shift operator
32:43 – Right Shift operator
36:00 – Bitwise Assignment operator
38:05 – Bitwise application
39:24 – Get n-th bit
49:00 – Set n-th bit
50:37 – Reset n-th bit

Session 33: Macro Processing (Done)

Video:

https://drive.google.com/file/d/11YbNFXyPMgemvhvWHOfMbX1VbiY_awNg/view

Description:

CONTENT:

00:00 – Basic Concept of Macros

18:15 - Handling unwanted situations