Day - 09

CP WORKSHEET

Date : 09/07/2025

Duration : 24 Hours

Challenge Brief

The CP Worksheet will have **4 problems** that will test your problem-solving, implementation, and analytical skills under realistic constraints.

Objective

The goal of this worksheet is not just to solve problems but to build your ability to:

- Write **correct and efficient code** under realistic constraints.
- Clearly **communicate your approach**, so anyone can understand your logic.

- Analyze and justify **time and space complexities**, a vital skill for coding interviews and contests.

- Develop the habit of writing clean, well-structured explanations — just like you'd do in a technical round or when documenting production code.

By practicing this way, you'll strengthen both your **problem-solving** and your **technical communication** — two essential skills for success in competitive programming, technical interviews, and real-world software development.

CP WORKSHEET

https://drive.google.com/file/d/1_pto-HIffRB8ix49TtMFZBVszt7mBUkT/view?usp=sharing

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General Guidelines and Deliverables

To ensure that you not only solve the problems but also practice clear communication of your approach, please follow these guidelines:

1) Working Code for Each Problem
    a) You must submit the complete, working code that produces correct output for each problem.
2) Explanation Document
    a) For all problems, create one single Google Doc containing your explanations. Submit the drive link
    b) For each problem in the document, include:
        i) Your approach: A clear, concise description of how you solved the problem.
        ii) Time Complexity: State the overall time complexity, with justification according to the constraints.
        iii) Space Complexity: State the overall space complexity, with justification.

Evaluation Criteria

Submission for each problem will be evaluated out of **10 marks**:

Correctness (6 marks)

- Code produces correct output for all test cases and handles edge cases properly.

Approach Explanation (2 marks)

- Clear, concise, and original explanation of your logic in your own words.

Complexity Analysis (2 marks)

- Correct time and space complexity stated, with justification that matches the problem's constraints.

Total per problem: 10 marks
Total for the worksheet (4 problems): 40 marks

Note: Incomplete or vague explanations or missing complexity analysis may lead to partial marks even if the code is correct.

Support

For any queries, reach out to:
Email: ME23B2010 DHANYA V

Name & contact: Dhanya V 7338798357

WhatsApp Community: https://chat.whatsapp.com/CEjhrp1QolYLs1m4OgslMT

Submission

Please Submit here - https://forms.gle/uV7ZXBaHxTNSGAU17

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