

Mastering Competitive Programming Lab

Student Lab Work Submission Template

Every Lab document must be written as per following structure.

Lab No: _____

Date: _____

1. Aim

Clearly state the objective of the experiment.

2. Problem Statement

LeetCode Problem No.: _____

Problem Title: _____

Problem Statement: _____

3. Approach / Algorithm

Explain the logic used to solve the problem in your own words.

- Describe the main idea of the solution
- Mention why a brute-force approach is not efficient
- Specify the data structure or algorithm used

(5–10 lines explanation is sufficient.)

4. Code Implementation

Write or paste the complete working code that was submitted on LeetCode.

// Write your code here

5. Sample Input and Output

Sample Input:

Sample Output:

6. Time and Space Complexity

- **Time Complexity:** _____
 - **Space Complexity:** _____
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7. Submission Proof

Paste a screenshot showing **Accepted** status on LeetCode.

8. Answers to Key Questions

(Answer the questions provided by the instructor related to this lab.)

- 1.
 - 2.
 3. _____
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Conclusion / Learning Outcome

Write 2–3 lines describing what you learned from this experiment.
