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PARALLEL AND SEQUENTIAL ALGORITHMS AND DATA STRUCTURES

LAB COURSE 2
Report Submission Guideline



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HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

TOPIC and Reference OF THIS COURSE

<http://www.cs.cmu.edu/~15210/>

https://www.educoder.net/shixuns/8jpoevi9/challenges?homework_common_id=2994349

This course covers

- Standard ML, a functional programming language.
- learning to describe algorithms using SML for solving problems.
- reusing abstract data types to build complex algorithms.
- analyzing and comparing the cost of algorithms and data structures



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Lab Report Requirements

- Mandatory Rules
 - Contents, Dates, and Submission Requirements
- Recommendations
 - Discussion, Typesetting, etc.
- General Notes
 - Typesetting, Cover page, etc.



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Mandatory Rules

- Contents should include **all 9 problems** in the semi-skilled SML problem set.
 - Problem Statements
 - Algorithm Design
 - Complexity
 - Demonstration Example



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Mandatory Rules

- Problem Statement and Algorithm Design
 - Describe each problem in natural language
 - Explain your algorithm workflow in natural language.
 - The focus is clarity: even someone unfamiliar with the problem should understand your explanation.



Mandatory Rules

- Complexity and Demonstration Example
 - Prove time and space complexity; if full proof is hard, give an upper bound.
 - Provide at least one worked example with sample data.
 - Show step-by-step computation to demonstrate your algorithm in action.



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Mandatory Rules

- Dates

THE SUBMISSION DEADLINE IS DEC. 7TH CST
LATE SUBMISSION WILL RESULT IN A GRADE REDUCTION.



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Mandatory Rules

- Submission Site: <https://hust-psdса25.hotcrp.com>

HUST PSDSA Fall 2025

Welcome to the Fall 2025 Parallel and Sequential Data Structures and Algorithms Lecture Report (HUST PSDSA Fall 2025) submissions site.

Submissions

New submission

Deadline: Monday Dec 8, 2025, 5:59:59 AM UTC (1:59:59 PM your time)



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Recommendations

- Use flowcharts for complex algorithms
- Describe special-case behaviors
- Improve readability: spacing, fonts, neat layout.
 - Chinese: SimSun (宋体)
 - English: Times New Roman
 - Code: monospaced (Consolas, Courier New)
- Use algorithmicx or algorithm2e in LaTeX for algorithms.
- Learn LaTeX if possible (widely used for academic papers).



Notes

- No strict word limit.
 - Keep it informative but not overly long.
- Don't paste full code unless necessary.
 - Use snippets only for key points.

