

PARALLEL AND SEQUENTIAL ALGORITHMS AND DATA STRUCTURES

LAB COURSE 2 Report Submission Guideline



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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



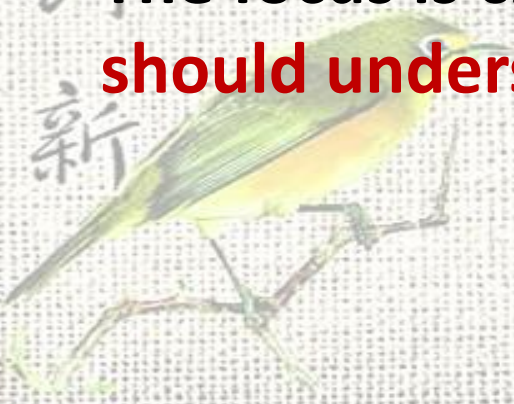
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Mandatory Rules

- 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.**



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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-psdsa25.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).**



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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.



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