In21-S2-CS2023 - Data Structures and Algorithms

Learning outcomes

Learning Outcomes:

After successfully studying contents covered in this lecture, students should be able to,

- analyze the time complexity of merge sort
- analyze the complexity of algorithms with recursion
- use substitution method and recursion-tree method to solve recurrences
- use the master method to solve recurrences

Topics Covered in Class:

- Analyzing Merge Sort
- Solving Recurrences: Recursion-tree method
- Solving Recurrences: Master method

Reading Assignments:

- Analysis of Merge Sort: Section 2.3.2
- Solving Recurrences: Sections 4.3, 4.4
- Solving Recurrences: Section 4.5

Self Studying:

- Solve the Recursion of Merge Sort Using Different Methods
- Practice Exercises from the Book for the Two Methods of Solving Recurrences

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Previous activity

◄ In-class lab exercise

Jump to...

Next activity

Lecture Slides: Analyzing Recurences ►

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Data retention summary

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