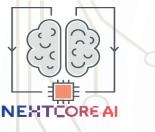


Introduction

Merge Sort (Overview)

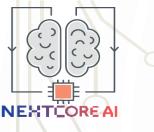
Design and Analysis of Algorithms I



WHY STUDY MERGE SORT?

- Good introduction to divide & conquer
 - Improves over Selection, insertion, Bubble sorts
- Calibrate your preparation
- Motivates guiding principles for algorithm analysis (worstcase and asymptotic analysis)
- Analysis generalizes to "Master Method"

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The Sorting Problem

Input : array of n numbers, unsorted.



<u>Assume Distinct</u>

Output : Same numbers, sorted in increasing order



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