Mindluster Platform

About the course Merge Sort Algorithm techniques

Merge Sort Algorithm, in this course youâ€™ll explore the Merge Sort algorithm, a powerful and efficient sorting technique based on the Divide and Conquer approach. Learn how to break down data into smaller parts, sort them individually, and merge them back together to create a fully sorted list. This course covers the theoretical foundation, step-by-step implementation, and practical applications of Merge Sort. Youâ€™ll understand how to handle single and multi-dimensional arrays, optimize sorting for large datasets, and analyze the algorithm's time and space complexity. With hands-on examples, weâ€™ll guide you through recursive functions, merging techniques, and space management. Perfect for beginners and advanced learners, this course equips you with essential skills for data structure optimization and algorithmic problem-solving, making it ideal for software development and data analysis projects.

Computer Science Category's Courses

Course Lesson(6)

Lesson 1 : **Merge Sort 1 â€“ The Algorithm**

Lesson 2 : **Merge Sort 2 â€“ Towards an Implementation Split a List**

Lesson 3 : **Merge Sort 3 â€“ Towards an Implementation Merge Two Lists**

Lesson 4 : **Merge Sort 4 â€“ Towards an Implementation Recursive Function**

Lesson 5 : **Merge Sort 5 â€“ VB NET Implementation**

Lesson 6 : **Big O Part 7 â€“ Space Complexity versus Time Complexity**

Related courses

Linear Algebra for Computer Scientists

Insertion Sort

Bubble Sort

GCSE Computer Science

Random Access Memory

Binary Trees

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