

Computer Science - An Introduction to Algorithms

Algorithms are step-by-step procedures or formulas for solving problems. They form the foundation of computer science and are essential in programming, data processing, artificial intelligence, and cybersecurity.

There are various types of algorithms, including sorting algorithms like quicksort and mergesort, and search algorithms like binary search. Each algorithm has its own efficiency, which can be measured by time complexity and space complexity.

Understanding algorithm design helps in writing better code and solving real-world problems efficiently. Algorithms are not limited to computers; they are used in everyday life such as recipes, GPS navigation, and even solving a Rubik's Cube.

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