

Fundamentals Of Computer Algorithms

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3.1.1 Representing algorithms. Understand and explain the term algorithm. An algorithm is a sequence of steps that can be followed to complete a task. Be aware that a computer program is an implementation of an algorithm and that an algorithm is not a computer program. Understand and explain the term decomposition.

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The most common computing times for algorithms we will see here are $O(1) < O(\log n) < O(n) < O(n \log n) < O(n^2) < O(n^3) < O(2^n)$
fAnalyzing al-orithms 29 $O(1)$ means that the number of executions of basic operations is fixed and hence the total time is bounded by a constant.

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This book is appropriate as a core text for upper-and graduate-level courses in algorithms. The second edition of Fundamentals of Computer Algorithms emphasizes: Design techniques: Divide and conquer, the greedy method, dynamic programming, backtracking and branch and bound are illustrated with several examples. Each algorithm is completely analyzed.

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