

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 $O(1)$, $O(\log n)$, $O(n)$, $O(n \log n)$, $O(n^2)$, $O(n^3)$, $O(2^n)$. Analyzing algorithms $O(1)$ 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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Theoretical computer science - Wikipedia

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