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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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Computational Thinking. Computational thinking is the thought processes involved in formulating a problem and expressing...

Algorithms. An algorithm is an unambiguous, step-by-step solution to solve a problem in a finite number of steps. Flowcharts. Flowcharts are a ...

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The most common computing times for algorithms we will see here are $O(1) < O(\log n) < O(n) < O(n \log n) < O(n^2) < O(n^3)$. Analyzing algorithms 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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...

Fundamentals of algorithms Algorithms
are step-by-step plans for solving
problems. They can be designed using
pseudo-code and flowcharts.

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Fundamentals of Computer Algorithms is
a comprehensive book for undergraduate
students of Computer Science
Engineering. The book comprises chapters
on elementary data structures, dynamic
programming, backtracking, algebraic
problems, lower bound theory, pram
algorithms, mesh algorithms, and
hypercube algorithms.

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Theoretical computer science - Wikipedia
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