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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.

AQA | Computer Science | Subject content | Fundamentals of ...

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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

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constant.

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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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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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