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# Algorithms And Programming Problems Solutions

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programming process, thus developing an understanding of the underlying theory.

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We have utilized the problem-solution format. Some chapters are collections of problems having a common topic, while others are devoted to one specific algorithm (e.g., chapter 16 covers LR(1)-parsing). The chapters are more or less

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independent, but the concluding chapters are more difficult. Chapters 1-7 cover material usually

~~Algorithms and Programming: Problems and Solutions, Second ...~~

Array. Find pair with given sum in the array. Find sub-array with 0 sum. Sort binary array in linear time Find a duplicate element in a limited range array Find largest sub-array formed by consecutive integers Find maximum length sub-array having given sum Find maximum length sub-array having equal number of 0's and 1's Sort an array containing 0's, 1's and 2's(Dutch national flag ...



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A computer is a tool that can be used to implement a plan for solving a problem. A computer program is a set of instructions for a computer. These instructions describe the steps that the computer must follow to implement a plan. An algorithm is a plan for solving a problem. A person must design an algorithm.

~~4. Problem Solving and Algorithms - Virginia Tech~~

An algorithm proposed for such a situation is called a serial algorithm instead of parallel algorithms or distributed algorithms. Parallel algorithms take advantage of computer intends where several

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processors can work on a problem concurrently, wherever distributed algorithms exploit multiple machines connected with a network.

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Find pair with given sum in the array. Check if subarray with 0 sum is exists or not. Print all sub-arrays with 0 sum. Sort binary array in linear time. Find a duplicate element in a limited range array. Find maximum length sub-array having given sum. Find maximum length sub-array having equal number of 0's and 1's.

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A computer algorithm is a computational procedure that takes in a set of finite input and transforms it into output by applying some math & logic. An algorithm in programming will have several steps as follows -  
Problem definition - What is to be done? Data collection - What do we have to solve the problem? Or inputs.

~~Algorithm in Programming | Significance Of Algorithm in ...~~

Other algorithms for solving linear-programming problems are described in the linear-programming

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article. Another basis-exchange pivoting algorithm is the criss-cross algorithm . [40] [41] There are polynomial-time algorithms for linear programming that use interior point methods: these include Khachiyan 's ellipsoidal algorithm , Karmarkar 's ...

### ~~Simplex algorithm – Wikipedia~~

Alexander Shen "Algorithms and Programming" is primarily intended for a first year undergraduate course in programming. Structured in a problem-solution format, the text motivates the student to think through the programming process, thus developing a firm understanding of the underlying theory.

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## ~~Algorithms and Programming: Problems and Solutions~~

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Certain special cases of linear programming, such as network flow problems and multicommodity flow problems are considered important enough to have generated much research on specialized algorithms

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for their solution. A number of algorithms for other types of optimization problems work by solving LP problems as sub-problems.

~~Linear programming - Wikipedia~~

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~~Algorithms and Programming: Problems and Solutions~~  
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A greedy algorithm is an algorithmic paradigm that follows the problem-solving heuristic of making the locally optimal choice at each stage with the hope of finding a global optimum. Advantages of Greedy algorithms Always easy to choose the best option. Usually, requires sorting choices.

~~When to use Greedy Algorithms in Problem Solving | by ...~~

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CP1401 - CP5639 Problem solving and programming  
Week 2 Lecture Outline • Pseudo code •

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In solving goal programming problems, classical methods reduce the multiple goal-attainment problem into a single objective of minimizing a weighted sum of deviations from goals.

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