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The Algorithm Design Manual: Steven S Skiena

The travelling salesman problem (TSP) asks the following question: "Given a list of cities and the distances between each pair of cities, what is the shortest possible route that visits each city and returns to the origin city?" It is an NP-hard problem in combinatorial optimization, important in operations research and theoretical computer science. ...

Travelling salesman problem - Wikipedia

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In computer science, the maximum subarray problem is the task of finding the contiguous subarray within a one-dimensional array, $a[1...n]$, of numbers which has the largest sum. Formally, the task is to find i, j , with $1 \leq i \leq j \leq n$, such that the sum $\sum_{k=i}^j a[k]$ is maximal. The array usually contains both positive and negative numbers along with 0. For example, for the array of values $2, 1, 3, 4, \dots$

Maximum subarray problem - Wikipedia

This note explains core material in data structures and algorithm design, and also helps students prepare for research in the field of algorithms.

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A good text. Structured very nicely with lots of appropriate background that builds up the story and derivation of the algorithms. A bit too terse in places, leaving someone without a teacher hard-pressed to implement their efficient "selection" algorithm for medians or other percentiles into data sets, for instance.

Algorithms: Sanjoy Dasgupta Algorithms - amazon.com

In this paper, we present Google, a prototype of a large-scale search engine which makes heavy use of the structure present in hypertext. Google is designed to crawl and index the Web efficiently and produce much more satisfying search results than existing systems. The prototype with a full text ...

The Anatomy of a Search Engine - Stanford University

Title Authors Published Abstract Publication Details; Analysis of the CLEAR Protocol per the National Academies' Framework Steven M. Bellovin, Matt Blaze, Dan Boneh, Susan Landau, Ronald L. Rivest

Technical Reports | Department of Computer Science

4. Name and Description ¶. The starting point of the name and description computation is a DOM element. The output is a flat, unstructured string that can be as simple as a single word, or a string of space-separated tokens.

Accessible Name and Description Computation 1.1

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I'm looking for the fastest way to determine if a long value is a perfect square (i.e. its square root is another integer): . I've done it the easy way, by using the built-in `Math.sqrt()` function, but I'm wondering if there is a way to do it faster by restricting yourself to integer-only domain.

java - Fastest way to determine if an integer's square

The incremental learning derives its name from the incremental nature of the learning process. In incremental learning, all facets of knowledge receive a regular treatment, and there is a regular inflow of new knowledge that builds upon the past knowledge.

SuperMemo: Incremental learning - Super Memory: Forget

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Box and Cox (1964) developed the transformation. Estimation of any Box-Cox parameters is by maximum likelihood. Box and Cox (1964) offered an example in which the data had the form of survival times but the underlying biological structure was of hazard rates, and the transformation identified this.

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