ALGORITHM:

The word "algorithm" relates to the name of the mathematician Al-khowarizmi, which means a procedure or a technique. Software Engineer commonly uses an algorithm for planning and solving the problems. An algorithm is a sequence of steps to solve a particular problem or algorithm is an ordered set of unambiguous steps that produces a result and terminates in a finite time

Algorithm has the following characteristics

- Input: An algorithm may or may not require input
- · Output: Each algorithm is expected to produce at least one result
- Definiteness: Each instruction must be clear and unambiguous.
- Finiteness: If the instructions of an algorithm are executed, the algorithm should terminate after finite number of steps

The algorithm and flowchart include following three types of control structures.

- Sequence: In the sequence structure, statements are placed one after the other and the execution takes place starting from up to down.
- Branching (Selection): In branch control, there is a condition and according to a
 condition, a decision of either TRUE or FALSE is achieved. In the case of TRUE, one
 of the two branches is explored; but in the case of FALSE condition, the other
 alternative is taken. Generally, the 'IF-THEN' is used to represent branch control.
- Loop (Repetition): The Loop or Repetition allows a statement(s) to be executed repeatedly based on certain loop condition e.g. WHILE, FOR loops.

Advantages of algorithm

- It is a step-wise representation of a solution to a given problem, which makes it easy to understand.
- An algorithm uses a definite procedure.
- It is not dependent on any programming language, so it is easy to understand for anyone even without programming knowledge.
- Every step in an algorithm has its own logical sequence so it is easy to debug.

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users around the world to date We have taken only the best of the best the most fun exciting and interesting problems available Algorithms Kenneth A. Berman, Jerome L. Paul, 2005 Algorithms Sequential Parallel and Distributed offers in depth coverage of traditional and current topics in sequential algorithms as well as a solid introduction to the theory of parallel and distributed algorithms In light of the emergence of modern computing environments such as parallel computers the Internet and cluster and grid computing it is important that computer science students be exposed to algorithms that exploit these technologies Berman and Paul s text will teach students how to create new algorithms or modify existing algorithms thereby enhancing students ability to think independently **Computer Science & Perl Programming** Jon Orwant,2002-11-04 In its first five years of existence The Perl Journal ran 247 articles by over 120 authors Every serious Perl programmer subscribed to it and every notable Perl guru jumped at the opportunity to write for it TPI explained critical topics such as regular expressions databases and object oriented programming and demonstrated Perl s utility for fields as diverse as astronomy biology economics AI and games The magazine gave birth to both the Obfuscated Perl Contest and the Perl Poetry contest and remains a proud and timeless achievement of Perl during one of its most exciting periods of development Computer Science and Perl Programming is the first volume of The Best of the Perl Journal compiled and re edited by the original editor and publisher of The Perl Journal Jon Orwant In this series we ve taken the very best and still relevant articles published in TPJ over its 5 years of publication and immortalized them into three volumes This volume has 70 articles devoted to hard core computer science advanced programming techniques and the underlying mechanics of Perl Here s a sample of what you ll find inside Jeffrey Friedl on Understanding Regexes Mark Jason Dominus on optimizing your Perl programs with Memoization Damian Conway on Parsing Tim Meadowcroft on integrating Perl with Microsoft Office Larry Wall on the culture of Perl Written by 41 of the most prominent and prolific members of the closely knit Perl community this anthology does what no other book can giving unique insight into the real life applications and powerful techniques made possible by Perl Other books tell you how to use Perl but this book goes far beyond that it shows you not only how to use Perl but what you could use Perl for This is more than just The Best of the Perl Journal in many ways this is the best of Perl IT Design for Amateur Communities Cristian Bogdan, 2003 LEDA Kurt Mehlhorn.Stefan Näher, 1999-11-11 LEDA is a library of efficient data types and algorithms and a platform for combinatorial and geometric computing on which application programs can be built In each of the core computer science areas of data structures graph and network algorithms and computational geometry LEDA covers all and more that is found in the standard textbooks LEDA is the first such library it is written in C and is available on many types of machine Whilst the software is freely available worldwide and is installed at hundreds of sites this is the first book devoted to the library Written by the main authors of LEDA it is the definitive account describing how the system is constructed and operates and how it can be used The authors supply ample examples from a range of areas to show how the library can be used in practice making the book essential for

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