

CS6402– Design and Analysis of Algorithm

2 – Marks Question & Answer

1. What is performance measurement?

Performance measurement is concerned with obtaining the space and the time requirements of a particular algorithm.

2. What is an algorithm?

An algorithm is a finite set of instructions that, if followed, accomplishes a particular task. In addition, all algorithms must satisfy the following criteria:

- 1) input
- 2) Output
- 3) Definiteness
- 4) Finiteness
- 5) Effectiveness.

3. Define Program.

A program is the expression of an algorithm in a programming language. Sometimes works such as procedure, function and subroutine are used synonymously program.

4. Write the For LOOP general format.

The general form of a for Loop is For variable := value 1 to value-2
step

```
Step do  
{  
  □ statement  
  | □  
  □ statement n  
  □  
}
```

5. What is recursive algorithm?

An algorithm is said to be recursive if the same algorithm is invoked in the body. An algorithm that calls itself is Direct recursive. Algorithm A is said to be indeed recursive if it calls another algorithm, which in turn calls A.

6. What is space complexity?

The space complexity of an algorithm is the amount of memory it needs to run to completion.

7. What is time complexity?

The time complexity of an algorithm is the amount of computer time it needs to run to completion.

Analysis And Design Algorithm Questions With Answers

G. G. Leininger



Analysis And Design Algorithm Questions With Answers:

Design and Analysis of Algorithms Parag H. Dave, 2007-09 All aspects pertaining to algorithm design and algorithm analysis have been discussed over the chapters in this book [Design and Analysis of Algorithms Resource description page](#)

Design and Analysis of Algorithms Hari Prabhat Gupta, Rahul Mishra, 2025-06-01 *Analysis and Design of Algorithms* Singhal Shefali, 2019-09-20 The book has been written in such a way that the concepts and working of algorithms are explained in detail with adequate examples To make clarity on the topic diagrams calculation of complexity algorithms are given extensively throughout Many examples are provided which are helpful in understanding the algorithms by various strategies This content is user focused and has been highly updated including algorithms and their real world examples Key features This book is especially designed for beginners and explains all aspects of algorithm and its analysis in a simple and systematic manner Algorithms and their working are explained in detail with the help of several illustrative examples Important features like greedy algorithm dynamic algorithm string matching algorithm branch and bound algorithm NP hard and NP complete problems are suitably highlighted Solved and frequently asked questions in the various competitive examinations sample papers of the past examinations are provided which will serve as a useful reference source The book would serve as an extremely useful text for BCA MCA M Sc Computer Science PGDCA BE Information Technology and B Tech and M Tech students Contents Algorithm Algorithmic Strategy Complexity of Algorithms Divide and Conquer Algorithms Greedy Algorithm Dynamic Programming Graph Theory Backtracking Algorithms Branch and Bound Algorithms String Matching Algorithms P and NP Problems **Basic Questions of Design Theory** William R. Spillers, 1974

Systems Analysis and Design William S. Davis, 1983 [Ethical Design of Artificial Intelligence-based Systems for Decision Making](#) Valentina Franzoni, Jordi Vallverdu, Roberto Capobianco, Giulio Biondi, Alfredo Milani, Francesca Alessandra Lisi, Stefano Cagnoni, 2023-11-29 Artificial Intelligence AI including Machine Learning with Deep Neural Networks is making and supporting decisions in ways that increasingly affect humans in many aspects of their lives Both autonomous and decision support systems applying AI algorithms and data driven models are used for decisions about justice education physical and psychological health and to provide or deny access to credit healthcare and other essential resources in all aspects of daily life in increasingly ubiquitous and sometimes ambiguous ways Too often these systems are built without considering the human factors associated with their use and the need for clarity about the correct way to use them and possible biases Models and systems provide results that are difficult to interpret and are accused of being good or bad whereas good or bad is only the design of such tools and the necessary training for them to be properly integrated into human values [Computer Aided Design of Multivariable Technological Systems](#) G. G. Leininger, 2014-05-16 *Computer Aided Design of Multivariable Technological Systems* covers the proceedings of the Second International Federation of Automatic Control IFAC The book reviews papers that discuss topics about the use of Computer Aided Design CAD in

designing multivariable system such as theoretical issues applications and implementations The book tackles several topics relevant to the use of CAD in designing multivariable systems Topics include quasi classical approach to multivariable feedback system designs fuzzy control for multivariable systems root loci with multiple gain parameters multivariable frequency domain stability criteria and computational algorithms for pole assignment in linear multivariable systems The text will be of great use to professionals whose work involves designing and implementing multivariable systems The Design and Analysis of Parallel Algorithms Selim G. Akl,1989 Mathematics of Computing Parallelism **Introduction to Structured Programming with Pascal** Milton M. Underkoffler,1983 System Design for Human Interaction IEEE Systems, Man, and Cybernetics Society,1987 Introduction to Structured Programming with PL/I and PL/C Milton M. Underkoffler,1980 Proceedings of the ... ASME Design Engineering Technical Conferences ,2006 **How to Prepare for the AP Computer Science** Roselyn Teukolsky,2001 Offering an overview of computer science computer architecture and languages plus summaries reviewing important topics this guide contains a model test of 40 multiple choice questions plus a section that requires students to demonstrate reasoning skills *Advanced Manufacturing Systems, ICMSE 2011* Dao Guo Yang,Tian Long Gu,Huai Ying Zhou,Jian Min Zeng,Zheng Yi Jiang,2011-02-21 Selected peer reviewed papers from the International Conference on Manufacturing Science and Engineering ICMSE 2011 9 11 April 2011 Guilin China **Proceedings of the Fifteenth Hawaii International Conference on System Sciences 1982** ,1982 **GCSE Success Revision - Ict** Sean O'Byrne,2006-07 This volume covers the 2006 subject specifications for all exam boards The text is laid out in sound bite boxes to aid recollection with clearly labelled diagrams to add visual clarity and further demonstrate the subject matter Proceedings of the 26th IEEE Conference on Decision and Control ,1987 Proceedings American Society for Engineering Education,1995 **NBS Special Publication** ,1968 **IEEE, ACM International Conference on Computer Aided Design** International Conference on Computer Aided Design. Institute of Electrical and Electronics Engineers, 2000, San José, Calif.,2000

Analysis And Design Algorithm Questions With Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Analysis And Design Algorithm Questions With Answers**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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