

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

EW Minium



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Elements of Compiler Design Alexander Meduna,2007-12-03 Maintaining a balance between a theoretical and practical approach to this important subject Elements of Compiler Design serves as an introduction to compiler writing for undergraduate students From a theoretical viewpoint it introduces rudimental models such as automata and grammars that underlie compilation and its essential phases Based on these models the author details the concepts methods and techniques employed in compiler design in a clear and easy to follow way From a practical point of view the book describes how compilation techniques are implemented In fact throughout the text a case study illustrates the design of a new programming language and the construction of its compiler While discussing various compilation techniques the author demonstrates their implementation through this case study In addition the book presents many detailed examples and computer programs to emphasize the applications of the compiler algorithms After studying this self contained textbook students should understand the compilation process be able to write a simple real compiler and easily follow advanced books on the subject *Design Analysis and Algorithm* Hari Mohan Pandey,2008-05 Experimental Methods for the Analysis of Optimization Algorithms Thomas Bartz-Beielstein,Marco Chiarandini,Luís Paquete,Mike Preuss,2010-11-02 In operations research and computer science it is common practice to evaluate the performance of optimization algorithms on the basis of computational results and the experimental approach should follow accepted principles that guarantee the reliability and reproducibility of results However computational experiments differ from those in other sciences and the last decade has seen considerable methodological research devoted to understanding the particular features of such experiments and assessing the related statistical methods This book consists of methodological contributions on different scenarios of experimental analysis The first part overviews the main issues in the experimental analysis of algorithms and discusses the experimental cycle of algorithm development the second part treats the characterization by means of statistical distributions of algorithm performance in terms of solution quality runtime and other measures and the third part collects advanced methods from experimental design for configuring and tuning algorithms on a specific class of instances with the goal of using the least amount of experimentation The contributor list includes leading scientists in algorithm design statistical design optimization and heuristics and most chapters provide theoretical background and are enriched with case studies This book is written for researchers and practitioners in operations research and computer science who wish to improve the experimental assessment of optimization algorithms and consequently their design Enterprise Information Systems Joaquim

Filipe, Michał Śmiałek, Alexander Brodsky, Slimane Hammoudi, 2024-07-25 This two volume set constitutes the refereed post conference proceedings of the 25th International Conference on Enterprise Information Systems ICEIS 2023 which was held in Prague Czech Republic during April 2023 The 41 full papers and 66 short papers presented were carefully reviewed and selected from 213 submissions They are organized in topical sections as follows Part One Databases and Information Systems Integration Artificial Intelligence and Decision Support Systems and Information Systems Analysis and Specification Part Two Software Agents and Internet Computing Human Computer Interaction and Enterprise Architecture

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