

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

Mark Steyvers



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Table of Contents Analysis And Design Algorithm Questions With Answers

1. Understanding the eBook Analysis And Design Algorithm Questions With Answers
 - The Rise of Digital Reading Analysis And Design Algorithm Questions With Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Analysis And Design Algorithm Questions With Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Analysis And Design Algorithm Questions With Answers
 - User-Friendly Interface

4. Exploring eBook Recommendations from Analysis And Design Algorithm Questions With Answers
 - Personalized Recommendations
 - Analysis And Design Algorithm Questions With Answers User Reviews and Ratings
 - Analysis And Design Algorithm Questions With Answers and Bestseller Lists
5. Accessing Analysis And Design Algorithm Questions With Answers Free and Paid eBooks
 - Analysis And Design Algorithm Questions With Answers Public Domain eBooks
 - Analysis And Design Algorithm Questions With Answers eBook Subscription Services
 - Analysis And Design Algorithm Questions With Answers Budget-Friendly Options
6. Navigating Analysis And Design Algorithm Questions With Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Analysis And Design Algorithm Questions With Answers Compatibility with Devices
 - Analysis And Design Algorithm Questions With Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Analysis And Design Algorithm Questions With Answers
 - Highlighting and Note-Taking Analysis And Design Algorithm Questions With Answers
 - Interactive Elements Analysis And Design Algorithm Questions With Answers
8. Staying Engaged with Analysis And Design Algorithm Questions With Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Analysis And Design Algorithm Questions With Answers
9. Balancing eBooks and Physical Books Analysis And Design Algorithm Questions With Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Analysis And Design Algorithm Questions With Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Analysis And Design Algorithm Questions With Answers
 - Setting Reading Goals Analysis And Design Algorithm Questions With Answers
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Analysis And Design Algorithm Questions With Answers
 - Fact-Checking eBook Content of Analysis And Design Algorithm Questions With Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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