

# Sample Data Structures Questions

## Chapter 1

### The Phases of Software Development

Data Structures and Other Objects Using C++

by [Michael Main](#) and [Walter Savitch](#)

Second Edition ISBN 0-201-70297-5, Softcover, 816 pages, 2000

#### The Purpose of These Questions

These are typical exam questions from Chapter 1 of the textbook. These exact questions might not be on your exam, but if you research and find the right answers to these questions, that should be good preparation for a real exam. (It's also possible that some of this material was not covered in your class.) At the moment there are **11** short answer questions and **19** multiple choice questions in this file.

#### Short Answers

1. Describe one good method for precisely specifying *what* a function must do, without indicating *how* the function accomplishes its work. Provide an example, using a small function.
2. What is a precondition? What is a postcondition?
3. It's recommended that the precondition be checked at the start of a function. What's a good approach if a function discovers that its precondition is not true?
4. Is it always possible for a function to check that its precondition is true?
5. Suppose that you accidentally call a correctly implemented function, but the precondition is false. Is the function guaranteed to halt with a nice message? Is the function allowed to erase everything on your hard drive?
6. Write the first few lines of this function so that it uses the assert facility to check its precondition:

```
void exam(int i)
// Precondition: i is not equal to 42.
...
```

7. Give a concise formula that gives the approximate number of digits in a positive integer. The integer is written in base 10.
8. Why is the order of an algorithm generally more important than the speed of the processor?
9. Convert each time formula to the best possible big-O notation. Do not include any spurious constants in your big-O answer.

Short Answers  
Section 1.1  
Specification and Design

Short Answers  
Section 1.2  
Running Time Analysis

Time Formula

Big-O

# Sample Data Structures Questions Chapter 6

**Huangqi Zhang**



## **Sample Data Structures Questions Chapter 6:**

## Unveiling the Magic of Words: A Review of "**Sample Data Structures Questions Chapter 6**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Sample Data Structures Questions Chapter 6**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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### **Table of Contents Sample Data Structures Questions Chapter 6**

1. Understanding the eBook Sample Data Structures Questions Chapter 6
  - The Rise of Digital Reading Sample Data Structures Questions Chapter 6
  - Advantages of eBooks Over Traditional Books
2. Identifying Sample Data Structures Questions Chapter 6
  - 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 Sample Data Structures Questions Chapter 6
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Data Structures Questions Chapter 6
  - Personalized Recommendations
  - Sample Data Structures Questions Chapter 6 User Reviews and Ratings
  - Sample Data Structures Questions Chapter 6 and Bestseller Lists

5. Accessing Sample Data Structures Questions Chapter 6 Free and Paid eBooks
  - Sample Data Structures Questions Chapter 6 Public Domain eBooks
  - Sample Data Structures Questions Chapter 6 eBook Subscription Services
  - Sample Data Structures Questions Chapter 6 Budget-Friendly Options
6. Navigating Sample Data Structures Questions Chapter 6 eBook Formats
  - ePub, PDF, MOBI, and More
  - Sample Data Structures Questions Chapter 6 Compatibility with Devices
  - Sample Data Structures Questions Chapter 6 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sample Data Structures Questions Chapter 6
  - Highlighting and Note-Taking Sample Data Structures Questions Chapter 6
  - Interactive Elements Sample Data Structures Questions Chapter 6
8. Staying Engaged with Sample Data Structures Questions Chapter 6
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sample Data Structures Questions Chapter 6
9. Balancing eBooks and Physical Books Sample Data Structures Questions Chapter 6
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sample Data Structures Questions Chapter 6
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Sample Data Structures Questions Chapter 6
  - Setting Reading Goals Sample Data Structures Questions Chapter 6
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sample Data Structures Questions Chapter 6
  - Fact-Checking eBook Content of Sample Data Structures Questions Chapter 6
  - 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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