

# Sample Data Structures Questions

## Chapter 1

### The Phases of Software Development

Data Structures and Other Objects Using C++

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

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#### 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

**TD Snyder**



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

Sample Data Structures Questions Chapter 6: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Sample Data Structures Questions Chapter 6 : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Paffen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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