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.

    > Short Answers
    > Section 1.1
    > Specification and Design

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 accidently 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.

    > Short Answers
    > Section 1.2
    > Running Time Analysis

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.

Time Formula	Big-O

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Bhagvan Kommadi

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