
Programming Logic and Design (Chapter I-V Review) Questions with Complete Answers

The value stored in an uninitialized variable is - ANSWER-garbage

The value 3 is an example of - ANSWER-a numeric constant

The assignment operator - ANSWER-is a binary operator

Multiplication has a lower precedence than - ANSWER-parentheses

Which of the following is not a term used as a synonym for module? - ANSWER-object

This facilitates reusability - ANSWER-Modularization

What is the name for the process of paying attention to important properties while ignoring nonessential details? - ANSWER-abstraction

Every module has all of the following except - ANSWER-local variables

Programmers say that one module can _____ another, meaning that the first module causes the second module to execute. - ANSWER-call

The more that a module's statements contribute to the same job, the greater the _____ of the module - ANSWER-functional cohesion

In most modern programming languages, a variable or constant that is declared in a module is _____ in that module - ANSWER-in scope

Which of the following is not a typical housekeeping task? - ANSWER-printing summaries

Which module in a typical program will execute the most times? - ANSWER-the detailed loop

A hierarchy chart tells you - ANSWER-which modules call other modules

What are nonexecuting statements that programmers place within code to explain program statements in English? - ANSWER-comments

Program comments are - ANSWER-neither required in a program nor a form of external documentation

Programming Logic And Design Review Answers

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Nuraminah,Sahibuddin, Shamsul**

Programming Logic And Design Review Answers:

Engineering Design Handbook United States. Army Materiel Development and Readiness Command, 1977 Software Developer Interview Questions and Answers - English Navneet Singh, Here are some common software developer interview questions along with example answers

What programming languages are you proficient in Example Answer I am proficient in several programming languages including Java Python JavaScript and C I have extensive experience working with these languages in various projects including web development software engineering and data analysis

Can you explain the difference between object oriented programming and functional programming Example Answer Object oriented programming OOP is a programming paradigm that focuses on creating objects that encapsulate data and behaviour It emphasizes concepts such as classes inheritance and polymorphism

Functional programming on the other hand is a programming paradigm that treats computation as the evaluation of mathematical functions and avoids changing state or mutable data It emphasizes concepts such as higher order functions immutability and pure functions

Describe your experience with version control systems like Git Example Answer I have extensive experience using Git for version control in software development projects I am proficient in performing common Git operations such as branching merging rebasing and resolving conflicts I am also familiar with collaborating with team members using Git repositories managing branches and reviewing and merging code changes

How do you ensure the security of your code and prevent common vulnerabilities Example Answer I follow security best practices and principles to ensure the security of my code This includes validating user input sanitizing and escaping data to prevent injection attacks using parameterized queries to prevent SQL injection and implementing proper authentication and authorization mechanisms to control access to sensitive resources I also stay updated with security vulnerabilities and patches and conduct regular code reviews and security audits to identify and address potential vulnerabilities

Can you explain the difference between unit testing and integration testing Example Answer Unit testing is a testing technique where individual units or components of a software application are tested in isolation to ensure that they behave as expected It focuses on testing the smallest units of code such as functions or methods and typically involves writing and executing test cases using a testing framework

Integration testing on the other hand is a testing technique where multiple units or components of a software application are tested together to verify their interactions and integration It focuses on testing the interactions between different units and ensuring that they work together correctly

Describe a challenging problem you encountered during a software development project and how you solved it Example Answer During a recent software development project we encountered a performance bottleneck in the application where certain operations were taking longer than expected to execute After conducting profiling and performance analysis we identified that the bottleneck was caused by inefficient database queries To address this issue we optimized the database queries by adding appropriate indexes rewriting complex queries and caching frequently accessed

data As a result we were able to significantly improve the performance of the application and eliminate the bottleneck How do you stay updated with new technologies and trends in software development Example Answer I stay updated with new technologies and trends in software development by regularly reading industry blogs articles and forums attending conferences webinars and meetups and participating in online communities and discussion groups I also experiment with new tools and technologies through personal projects online courses and hands on learning Additionally I collaborate with colleagues and peers to share knowledge insights and best practices These example answers provide insights into how you might respond to common software developer interview questions but it s important to tailor your responses to your own experiences skills and the specific requirements of the job you re applying for

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