

First Quarter Exam

Data Structures and Algorithms by Larry David

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Identifier: ST009

1. Which of the following are commonly used version control systems? A. ☐ Git B. ☐ Mercurial C. ☐ Subversion D. ☐ Perforce E. ☐ ClearCase
2. Inheritance allows a subclass to inherit attributes and behaviors from multiple superclasses. ☐ True ☐ False
3. What is the output of the following code?
4. Which of the following are characteristics of a good software design? A. ☐ High complexity B. ☐ Loose coupling C. ☐ Tight cohesion D. ☐ Scalability E. ☐ Minimal redundancy
5. Object-oriented programming supports encapsulation, inheritance, and polymorphism. ☐ True ☐ False
6. What is the output of the following code?
7. What is the output of the following code?
8. Which of the following are common attributes of high-quality code? A. ☐ Low performance B. ☐ Readable C. ☐ Scalable D. ☐ Inefficient E. ☐ Unmaintainable
9. Which of the following is an example of a programming language? A. HTML B. CSS C. Python D. JSON E. XML
10. Which of the following is a fundamental principle of object-oriented programming? A. Abstraction B. Global variables C. Code duplication D. Monolithic architecture E. Linear programming
11. Which of the following is a software design pattern that separates the creation of objects from their usage? A. Observer B. Factory C. Decorator D. Singleton E. Facade
12. What is the output of the following code?
13. Which of the following are benefits of using a version control system? A. ☐ Easy debugging B. ☐ History tracking C. ☐ Enhancing code quality D. ☐ Automatic code deployment E. ☐ Faster development
14. Which of the following are benefits of using a version control system? A. ☐ History tracking B. ☐ Collaboration C. ☐ Automatic bug fixes D. ☐ Code review E. ☐ Backup

15. Which of the following are benefits of using a version control system? A. ☐ Tracking changes B. ☐ Managing code conflicts C. ☐ Automating unit tests D. ☐ Enhancing user experience E. ☐ Storing large binary files

16. What is the output of the following code?