Module 1 Quiz

Graded Quiz • 30 min

Due Mar 15, 12:29 PM IST

1. Which of the following are key concepts found in all object-oriented programming languages, according to the lessons in this module? **1 / 1 point**

- [ ] Lambda expressions
- [x] Inheritance

✓ **Correct**

- [ ] Transactional memory
- [x] Abstraction

✓ **Correct**

- [x] Polymorphism

✓ **Correct**

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- [ ] Concurrency

2. Which of the following are examples of data abstraction features supported by Java, according to the lessons in this module? **1 / 1 point**

- [ ] if statements
- [x] Classes

✓ **Correct**

- [ ] for loops
- [x] Interfaces

✓ **Correct**

3. Which of the following is the best definition of an "abstract data type" (ADT), according to the lessons in this module? **1 / 1 point**

- (●) An ADT defines a set of data values and a set of operations on these values.
- ( ) An ADT selectively alters the flow of control through an app so it performs different computations based on programmer-specified conditions.
- ( ) An ADT defines an anonymous method that can be passed as an argument or returned as the value of method calls.
- ( ) An ADT separates the control flow paths of normal app execution from the control flow paths of anomalous app execution.

✓ **Correct**

4. Which of the following are accurate descriptions of differences between Java classes and interfaces, according to the lessons in this module? **1 / 1 point**

- [x] A Java interface provides a subset of the features provided by a Java class.

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- [x] A Java interface provides a subset of the features provided by a Java class.

✓ **Correct**

- [ ] A Java class can be part of a package, where as a Java interface can't.
- [x] A Java interface cannot be instantiated directly, whereas a class can.

✓ **Correct**

- [ ] A Java class is a data abstraction mechanism, whereas a Java interface is a control abstraction mechanism

5. Which of the following are benefits of Java generics, according to the lessons in this module? **1 / 1 point**

- [x] They help eliminate unnecessary duplication of code.

✓ **Correct**

- [x] They help eliminate unnecessary duplication of code.

✓ **Correct**

- [ ] They automatically reclaim and recycle objects that are not currently in use by an app.
- [x] They ensure compile-type safety when operating on different types.

✓ **Correct**

- [ ] It separates the control flow paths of normal app execution from the control flow paths of anomalous app execution.

6. Which of the following are benefits of inheritance in Java, according to the lessons in this module? **1 / 1 point**

- ( ) It hides a class's internal representation to ensure apps using the class can only access its public operations.
- ( ) It provides a namespace for organizing Java code in a logical manner.

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6. Which of the following are benefits of inheritance in Java, according to the lessons in this module? **1 / 1 point**

- ( ) It hides a class's internal representation to ensure apps using the class can only access its public operations.
- ( ) It provides a namespace for organizing Java code in a logical manner.
- (•) It enhances reuse by allowing classes to reuse common state and behavior from other class.
- ( ) It determines the order in which individual statements or method calls are evaluated or run.

✓ **Correct**

7. Which of the following describe the purpose of exception handling in Java, according to the lessons in this module? **1 / 1 point**

- [ ] It simplifies the management of large software projects by avoiding collisions between classes that have the same common name.
- [ ] It enables the repetition of a block containing one or more statements within an app.
- [x] It makes Java apps more robust and easier to understand and evolve.

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- [ ] It enables the repetition of a block containing one or more statements within an app.
- [x] It makes Java apps more robust and easier to understand and evolve.

✓ **Correct**

- [x] It separates the control flow paths of normal app execution from the control flow paths of anomalous app execution.

✓ **Correct**

8. Which of the following describe the purpose of polymorphism in Java, according to the lessons in this module? **1 / 1 point**

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8. Which of the following describe the purpose of polymorphism in Java, according to the lessons in this module? **1 / 1 point**

- (•) It enables transparent customization of methods in a subclass that are inherited from a super class.
- ( ) It defines an anonymous method that can be passed as an argument or returned as the value of method calls.
- ( ) It separates the control flow paths of normal app execution from the control flow paths of anomalous app execution.
- ( ) It enables the passing of types as parameters to the definition of classes, interfaces, and methods.

✓ **Correct**

9. Which of the following are expectations of learners who take this MOOC, according to the lessons in this module? **1 / 1 point**

- [ ] You are expected you to have a Computer Science degree.

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- [x] You are expected have basic computer literacy skills, such as knowing how to send & receive emails and browse the web.

✓ **Correct**

- [x] You are expected to be interested in both the concepts and practice of developing mobile apps

✓ **Correct**

- [ ] You are expected to know how to program Java for Android apps.

10. Which of the following are recommended strategies for learning the material covered in this MOOC, according to the lessons in this module? **1 / 1 point**

- [x] Attend Coursera meet up groups near you.

✓ **Correct**

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- [x] Attend Coursera meet up groups near you.

  ✓ **Correct**

- [x] Watch the lessons carefully before taking the quizzes and doing the programming assignments.

  ✓ **Correct**

- [x] Follow the links to articles, tutorials, source code, and documentation provided in the lesson slides.

  ✓ **Correct**

- [x] Participate in the online discussion forums.

  ✓ **Correct**