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Module 4 Quiz

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1. What is polymorphism?

    1 / 1 point

    ○ When two things share properties in common.

    ○ When the definition of a class changes over time.

    ○ When multiple objects have distinct methods.

    ⦿ When one thing can have multiple forms.

    > ✓ **Correct**
    > Correct!

2. Which of the following statements is true?

    1 / 1 point

    ○ Inheritance and overriding are required for polymorphism.

    ⦿ Inheritance and overriding enable polymorphism.

    ○ Overriding is necessary for inheritance.

    ○ Inheritance is necessary for overriding.

    > ✓ **Correct**
    > Correct!

3. If a type satisfies an interface, which of the following statements is true?

    1 / 1 point

    ⦿ The type defines all **methods** specified in the interface.

    ○ The type defines all **data** specified in the interface.

    ○ The type defines a **method** specified in the interface.

    ○ The interface includes a definition of the type.

    > ✓ **Correct**
    > Correct!

4. Which of the following statements is true?

    1 / 1 point

    ○ A concrete type is always a dynamic **type**.

    ○ An interface always has a dynamic **value**.

    ⦿ An interface always has a dynamic **type**.

    ○ An interface type is the same as a dynamic type.

    > ✓ **Correct**
    > Correct!

5. Which of the following statements is/are true?

    1 / 1 point

    I. Interfaces can support abstraction by concealing differences between types.

    II. Type assertions can reveal differences between type satisfying an interface.

    iii. Type assertions return two values.

    ○ I and II but NOT III.

    ○ II and III but NOT I.

    ○ I and III but NOT II.

    ⦿ I, II, and II

6. What is a use for an empty interface?   1 / 1 point

   ○ It allows two interfaces to be merged into one.

   ○ It allows a function to accept a variable number of arguments.

   ● It can be used to allow a function to accept any type as a parameter.

   ○ An empty interface cannot exist in Go.

7. After executing the expression below, what is the value of **err** if there is no error?   1 / 1 point

   f, err := os.Open("/harris/test.txt")

   ● nil

   ○ 0

   ○ –1

   ○ –2