Quiz Submissions – Data Abstraction Homework Quiz

Chork Hieng (username: gt9182iu)

Attempt 1

Written: Feb 12, 2022 2:26 PM - Feb 12, 2022 2:40 PM

Submission View

Your quiz has been submitted successfully.

Question 1   0 / 1 point

What are the instance variables in the **TimeOfDay** class? List them in the order in which they appear in the class, separated by spaces.

  Answer: hour munite second   ✖   **(hour minute second)**

Question 2   1 / 1 point

What are the instance variables in the **StudentScores** class? List them in the order in which they appear in the class, separated by spaces. Remember that Java is case sensitive!

  Answer: firstName lastName quizScores

Question 3   1 / 1 point

What is the name of the only private function in **TimeOfDay**?

  Answer: fix

Question 4   0 / 1 point

How many constructors does **TimeOfDay** have?

  Answer: 2   ✖   **(4)**

Question 5   0 / 1 point

How many constructors does **StudentScores** have?

  Answer: 2   ✖   **(1)**

Question 6   0 / 1 point

The **Point2d** class has a **main()** that serves as a test client. When **Point2d** is run as a program, what is the output?

  ✖ ○ 100 (42.00,1.00)

○ 100 (1.00,1.00)

➡ ○ 1 (42.00,1.00)

○ 1 (1.00,1.00)

Question 7   1 / 1 point

What do we call the first constructor in the **Point2d** class?

○ The default constructor.

○ The empty constructor.

○ The normal constructor.

Question 8   1 / 1 point

Which of these is an example of encapsulation?

○ The instance data in a Java class is marked as private.

○ If not constructor is provided by the class, Java will provide a default constructor that initializes all the instance variables to a known value.

○ A Java class combines data with the methods that operate on it.

Question 9   1 / 1 point

Which of these is an example of data hiding?

○ A Java class combines data with the methods that operate on it.

○ The instance data in a Java class is marked as private.

○ If not constructor is provided by the class, Java will provide a default constructor that initializes all the instance variables to a known value.

Question 10   6 / 7 points

For each statement, select whether it is true of reference types or primitive types.

✖   __1__ (2) Represents a type that is directly   **1.** reference types
                  supported by most CPUs.

2. primitive types

__1__   **String** is an example.

__1__   Can be a user-defined type.

__2__   **int** is an example.

__1__   Requires the use
             of **.equals()** for comparisons.

__2__   Can be meaningfully compared
             using the **==** operator.

__1__   Must be allocated using
             the **new** keyword.

Question 11   1 / 1 point

TimeOfDay, **StudentScores**, and **Point2d** are all ADTs.

○ True

○ False

Question 12   0 / 1 point

The **fix()** method is part of the API for **TimeOfDay**.

✗ ○ True

➡ ○ False

Question 13   1 / 1 point

The **getQuizAverage()** method is part of the API for **StudentScores**.

○ True

○ False

Question 14   0 / 1 point

StudentScores has a constructor with a parameter called numQuizScores. Why is that not stored as an instance variable?

➡ ○ It is the same as **quizScores.length**.

○ It is never used in the constructor.

✖ ◯ It is an **`int`**, and instance variables cannot be **`int`**s.