Quiz Submissions - Quiz #9



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Attempt 1

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Submission View

You successfully submitted your quiz.

Question 1 1 / 1 point

Which principle of SOLID does the following code break?

```
public class Person
{
    private Long personId;
    private String firstName;
    private String lastName;
    private String age;
    private String accountNumber;
    private String accountName;
}
public class Account
{
    private Long guid;
    private String status;
    private String type;
}
```

- a) Single Responsibility Principle
 - b) Open Closed Principle
 - c) Liskov's Substitution Principle
 - d) Dependency Inversion Principle

Question 2 1 / 1 point

Application specific interfaces are better than general purpose interface is

a) Single Responsibility Principle

	Quiz Submissions - Quiz #9 - Saturday-COMP-1451-0 - Intro Software Development 2 - 83067 - Lecture/Lab Combo - I b) Open/ Close Principle	British Columbia I
_ c	c) Liskov's Substitution Principle	
✓	d) Interface Segregation Principle	
Question	ı 3	1 / 1 point
What is	the singleton design pattern in Java?	
have o	only one instance of the class	
The corr	rect answer is not displayed for Written Response type questions.	
▼ Hic	de Feedback	
_	on pattern in Java is a pattern which allows only one instance of Singleton class whole application	available
Question A class h	1 4 having high maintainability will tend to have which of the following characteris	0 / 1 point
	a) High testability, low cohesiveness	
⇒ ○ I	b) High testability, High cohesiveness	
×	c) Low testability, high cohesiveness	
	d) Low testability, low cohesiveness	
	Consider the code below to answer the following two questions	
	package ca.bcit.quiz9A;	
	public class Cat {	
	<pre>public Cat(){</pre>	
	System. out .println("My name is Fluffy");	
	1 1	

```
package ca.bcit.quiz9B;
          public class Cat {
             public Cat(){
                   System.out.println("my name is Kitty");
             } }
          package ca.bcit.quiz9.main;
          import ca.bcit.quiz9A.*;
          import ca.bcit.quiz9B.*;
          public class Driver {
             public static void main(String[] args) {
                   Cat c = new Cat();
             } }
Question 5
                                                                                 0 / 1 point
 The Driver class will not compile, why?
          compiler dont know which Cat
                                           (The class name is ambiguous to the compiler.
 Answer: class to be used to create an
                                          Java does not know Which Cat class is being used)
          object
Question 6
                                                                                 1 / 1 point
 What changes can be done to get the above code display "my name is Kitty"?
                            (Use the full qualified name of the class Cat in package
          import
 Answer:
          ca.bcit.quiz9B.Cat ca.bcit.quiz7B ca.bcit.quiz7B.Cat c = new ca.bcit.quiz7B.Cat();)
Question 7
                                                                                 1 / 1 point
 Which of the following principles is related with polymorphism concept?
        a) Liskov substitution Principle
        b) single responsibility Principle
        c) Open-closed Principle
```

d) Interface Segregation Principle

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Consider this class in answering the following two questions:

```
public class Book {
  private String title;
  private String authorName;
   public Book(String title,String authorName) {
   setTitle(title);
   setAuthorName(authorName);
   }
   public void setTitle(String title){
      if(title != null){
       this.title = title;
      } else {
       throw new IllegalArgumentException("title cannot be null");
      } }
   public void setAuthorName(String name){
     if(name != null){
       authorName = name;
     } else {
       throw new IllegalArgumentException("author name cannot be
null");
   public String getTitle(){ return title;}
   public String getAuthorName (){ return authorName;}
   public void printCurrentPage(){
     // code to send the current page the printer
```

Question 8 0 / 2 points

This code breaks one of the SOLID code principles. Which principle does it break, explain?

Open/Closed Principle

The correct answer is not displayed for Written Response type questions.

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Single Responsibility Principle SRP, the method print current page should not be a part of the Book class and its not one of the responsibilities of a Book object

Question 9 0 / 1 point

How can the code above be refactored so that it will not break any SOLID code principles?

- No text entered -

The correct answer is not displayed for Written Response type questions.

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Move method printCurrentPage() to another class such as Printer class

Question 10 2 / 2 points

Mention two possible results of a duplicated code?

poor maintainability

Expensive to fix bugs

The correct answer is not displayed for Written Response type questions.

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Poor maintainability, hard to fix bugs and hard to keep up with changes.

Attempt Score: 7 / 12

Overall Grade (highest attempt):7 / 12

Done