



Review Test Submission: [Raw] Lesson 3 Quiz B

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Course	1930 ISTD - 50.001 : Introduction to Information Systems & Programming
Test	[Raw] Lesson 3 Quiz B
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Attempt Score	8 out of 8 points
Time Elapsed	0 minute
Results Displayed	Submitted Answers, Incorrectly Answered Questions

Question 1

2 out of 2 points



The abstract class **Feline** is to be subclassed by a concrete class **Tiger**.

In order for Tiger to be a valid concrete class, fill in the blanks **A** and **B**.

```
1 package Lesson3Abstract;
2
3 public abstract class Feline {
4
5     private String name;
6     private String breed;
7
8     Feline(String name, String breed) {
9         this.name = name;
10        this.breed = breed;
11    }
12
13    String getName() {
14        return name;
15    }
16
17    String getBreed() {
18        return breed;
19    }
20
21    abstract void sound();
22 }
23
24 class Tiger extends Feline{
25
26     Tiger(String name, String breed){
27         A
28         //other lines in constructor not shown
29     }
30
31     @Override
32     B {
33         //implementation not shown
34     }
35 }
36
```

A: **[a]** (case-sensitive, don't forget the semicolon)

B: **[b]** (case-sensitive)

Specified Answer for: a `super(name, breed);`

Specified Answer for: b `void sound()`

Question 2

2 out of 2 points



From the following statements, select those that are true about an abstract class.

Selected
Answers:

cannot be instantiated with the **new** keyword.

can be used as a data type.

a concrete subclass of an abstract class A need to implement all methods declared abstract within A

Question 3

1 out of 1 points



The abstract class **CaffeineBeverage** encapsulates the algorithm of brewing any caffeinated beverage.

Some of the steps in this algorithm vary, depending on the type of beverage.

Which of the methods below represent these steps, such that they must be implemented in subclasses?

This code is taken from the book "Heads First Design Patterns".

An incorrect answer has a negative score, but your minimum score will be zero.

```
public abstract class CaffeineBeverage {  
  
    final void prepareRecipe(){  
        boilWater();  
        brew();  
        addCondiments();  
        pourInCup();  
    }  
  
    abstract void brew();  
  
    abstract void addCondiments();  
  
    void boilWater(){  
        System.out.println("Boiling Water");  
    }  
  
    void pourInCup(){  
        System.out.println("Pouring in Cup");  
    }  
}
```

Selected Answers: brew()
addCondiments()

Question 4

1 out of 1 points



The abstract class **CaffeineBeverage** encapsulates the algorithm of brewing any caffeinated beverage.

Which method in this class executes all the steps of this algorithm?

This code is taken from the book "Heads First Design Patterns".

```

public abstract class CaffeineBeverage {

    final void prepareRecipe(){
        boilWater();
        brew();
        addCondiments();
        pourInCup();
    }

    abstract void brew();

    abstract void addCondiments();

    void boilWater(){
        System.out.println("Boiling Water");
    }

    void pourInCup(){
        System.out.println("Pouring in Cup");
    }
}

```

Selected Answer: prepareRecipe()

Question 5

2 out of 2 points



The **Comparable** interface from the **java.lang** library is shown below. **E** is a generic type.

```

public interface Comparable<E>{

    int compareTo(E e);

}

```

A class **Servant** below is meant to implement the **Comparable** interface. Fill in the missing parts **A** and **B**.

```

3 public class Servant implements A {
4
5     //other parts of the class not shown
6     @Override
7     public int compareTo(B s) {
8         //implementation not shown
9     }
10 }
11

```

A : **[a]** (case-sensitive, your answer must not have spaces in it)

B: **[b]** (case-sensitive, your answer must not have spaces in it)

Specified Answer for: a Comparable<Servant>

Specified Answer for: b Servant

Saturday, November 23, 2019 12:48:46 PM SGT

← OK