

**CMP 326 - Fall 2014 - Practice Quiz 7** Name: \_\_\_\_\_

1) Suppose you have two Java classes, `CUNYCollege` and `Lehman`. The class `CUNYCollege` represents a CUNY college and the class `Lehman` is a subclass of `CUNYCollege` that represents Lehman College. Are the following methods examples of *overloading, overriding, or neither?*

a `toString()` method in `CUNYCollege` \_\_\_\_\_

a `toString()` method in `Lehman` \_\_\_\_\_

two constructors that take different parameters in `Lehman` \_\_\_\_\_

a method `enrollStudent(...)` that is in both `CUNYCollege` and `Lehman` \_\_\_\_\_

a method that returns the street address that is only in `CUNYCollege` \_\_\_\_\_

the methods `isCUNYFirstUp()` and `isCUNYFirstUp(Date date)` in `CUNYCollege`

\_\_\_\_\_

2) Consider the class `Pet` below, which represents a pet in an animal hospital's records.

```
public class Pet {  
  
    private String name;  
    private int age;  
  
    public Pet(String n, int a) {  
        name = n;  
        age = a;  
    }  
  
    public String toString() {  
        return "Name: " + name + ", Age: " + age;  
    }  
}
```

Write a subclass `Dog` of the class `Pet`. It should have one additional instance variable that represents whether or not an instance of the `Dog` has fleas. Write the whole class, including:

- i) a constructor that takes in the name, age, and flea status of the dog
- ii) a `toString()` method that returns a string with the name and age of the dog, and whether or not the dog has fleas. It should call the `toString()` method of `Pet`.