CSC 203 Quiz 2   **Your name**: _____

Note: You may use your notes or my notes from my website. No other resources may be used during this quiz.

Question 1. (2 points)

a) Consider the `Record` and `Main` classes below carefully. What would be printed out after running `Main.java`?

```java
// Record.java
public class Record {
    private String artist;
    private String name;

    public Record(String artist, String name) {
        artist = artist;
        name = name;
    }

    public String getArtist() {
        return this.artist;
    }

    public String getName() {
        return this.name;
    }
}
```

```java
// Main.java
public class Main {
    public static void main(String[] args) {
        Record r1 = new Record("Marvin Gaye", "What's Going On");

        System.out.println(r1.getName() + " by " + r1.getArtist());
    }
}
```

- "What's Going On by Marvin Gaye"

- "What's Going On by null"

- *"null by null"*

- "null by Marvin Gaye"

b) Explain your reasoning for your answer **in one sentence**.

The `Record` constructor doesn't use `this`, resulting in references to the parameters, not the instance variables, and

1

Question 2. (2 points)

Consider the code below. After running the `main` method in `Main.java`, what is the value of `NUM_PENGUINS`?

```java
// Penguin.java
public class Penguin {
    private static int NUM_PENGUINS;
    private String name;

    public Penguin(String name) {
        this.name = name;
        NUM_PENGUINS++;
    }

    public Penguin() {
        this.name = "Pingu's friend";
        NUM_PENGUINS++;
    }
}

// Main.java
public class Main {
    public static void main(String[] args) {
        Penguin p1 = new Penguin("Pingu");
        Penguin p2 = new Penguin();
    }
}
```

1. 0

2. null

3. *2*

4. 1

Question 3. (1 point) What's value of `phrase` after the code below executes?

In the code below, underscores (_) are being used to depict space characters.

```java
String phrase = ''why are you yelling___'';
phrase.trim();
phrase.toUpperCase();
```

- "WHY ARE YOU YELLING"

- "WHY ARE YOU YELLING___"

- "why are you yelling"

- *"why are you yelling___" because strings are immutable*