

Honor Pledge

On my honor, I have neither given nor received any unauthorized aid on this quiz.

By typing your first and last name in the space provided below you are electronically signing to indicate that:

- (1) You are the person who is taking this quiz.
- (2) You read and understood the Honor Pledge and you agree to be bound by it.

Question 1. (12 pts) What is printed by the following program? Make sure to give each value exactly as it would be shown in the output, observing the whitespace, newline characters, etc. If you believe this code would not compile or would produce no output when run, put [Blank] in the text box below.

```
public class School {
    String name;

    public School(String theName) {
        this.name = theName;
    }

    public static void main(String[] args) {
        School s1 = new School("RPI");
        School s2 = s1;
        School s3 = new School("CMU");
        School s4 = new School("CMU");

        System.out.println(s1 == s2);
        System.out.println(s1.equals(s2));

        s1.name = "CMU";

        System.out.println(s2 == s1);
        System.out.println(s2.equals(s1));
        System.out.println(s2 == s3);
        System.out.println(s1 == s3);
        System.out.println(s1.name == s3.name);
        System.out.println(s1.name.equals(s3.name));
        System.out.println(s3 == s4);
        System.out.println(s2.equals(s3));
        System.out.println(s3.equals(s4));
        System.out.println(s4.equals(s3));
    }
}
```

Question 2. (4 pts) What is printed by the following code fragment? Make sure to give each value exactly as it would be shown in the output, observing the whitespace, newline characters, etc. If you believe this code would not compile or would produce no output when run, put [Blank] in the text box below.

```
String s1 = "RPI";  
String s2 = " Why Not Change the World?";  
String s3 = s1 + s2;  
String s4 = "RPI Why Not Change the World?";  
System.out.println(s3 == "RPI" + " Why Not Change the World?");  
System.out.println(s4 == "RPI" + " Why Not Change the World?");  
System.out.println(s3 == s4);  
System.out.println(s3.equals(s4));
```

Question 3. (6 pts) Java uses which of the following? Select the best answer.

Question 4. (6 pts) Which of the following statements are true? Select all that apply.