Q1
What Line is the problem with the following code on?

Q2

What Function affects the original string passed into these functions?

A: Function 1    B: Function 2
C: Function 3    D: All of these Functions
E: None of these Functions

void function1(String t)
{
    t = new String("World");
}
void function2(String t)
{
    t = t + "World";
}
void function3(StringBuffer t)
{
    t.append("World");
}
Q3

Describe the liveness of the student variables with name John Doe and Jane Doe at line 18?
A: Both Variables are live
B: Both variables are garbaged collected
C: Jane Doe is garbage collected
D: John Doe is garbage collected

1. public class Student{
2.     private String name;
3.     public String id;
4.     public Student getNewStudent(String name, String id){
5.         Student s = new Student();
6.         s.name = name;
7.         s.id = id;
8.         return s;
9.     }
13. }
14. public class professor{
15.     public static void main(String[] args){
16.         Student s = getNewStudent(“John Doe”, “515”);
17.         getNewStudent(“Jane Doe”, “115”);
18.         System.out.println(“Student ID: “ + s.id);
19.     }
20. }
Q4
What happens to the hours Jane has in this code by line 20?

A: She is marked as having 19 hours
B: She is marked as having 9.5 hours
C: She is marked as having 9 hours
D: Program doesn’t compile

```java
public class Student{
    private String name;
    public String id;
    public hours;
    public Student(String studentName, String studentId){
        name = studentName;
        id = studentId;
    }
    public void setTotalCreditHours(int studentHours){
        hours = studentHours;
    }
}

public class professor{
    public static void main(String[] args){
        Student s = new Student(“John Doe”, “515”);
        s.setTotalCreditHours(19);
        Student t = new Student(“Jane Doe”, “115”);
        double hours = s.hours / 2.00; //Jane has half the credits John Doe has
        t.setTotalCreditHours(hours);
    }
}
```
In the following constructor for student, how would you assign the object variable **name** to the formal parameter passed in?

A: `this.name = name;`

B: `name = this.name;`

C: `Student.name = name;`

D: `Student.name = this.name;`

```java
public class Student{
    private String name;
    public String id;
    public hours;
    public Student(String name, String studentId){
        this.name = name;
        id = studentId;
    }
    public void setTotalCreditHours(int hours){
        this.hours = hours;
    }
}
```