

## Ch 5 Review 1

Wednesday, January 16, 2013  
9:33 AM

AP Computer Science

Chapter 5 Review Problem 1

1. Assume the following declarations have been made

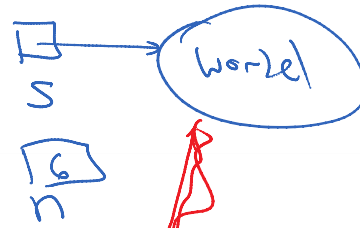
```
private String s;  
private int n;  
s = "world";  
n = 6;  
changer(s, n);
```

```
public void changer(String x, int y) {  
    x = x + "peace";  
    y = y * 2;  
}
```

What are the values of `s` and `n` after the call `changer(s, n)`?

*S and n don't change*

*world / 6*



*12*

2. Consider a client program of the `Student` class that includes the following methods

```
public static void change1(Student stdt1, Student stdt2) {  
    stdt1 = stdt2;  
}
```

```
public static void change2(Student stdt1, Student stdt2) {  
    stdt1.setGPA(stdt2.getGPA());  
}
```

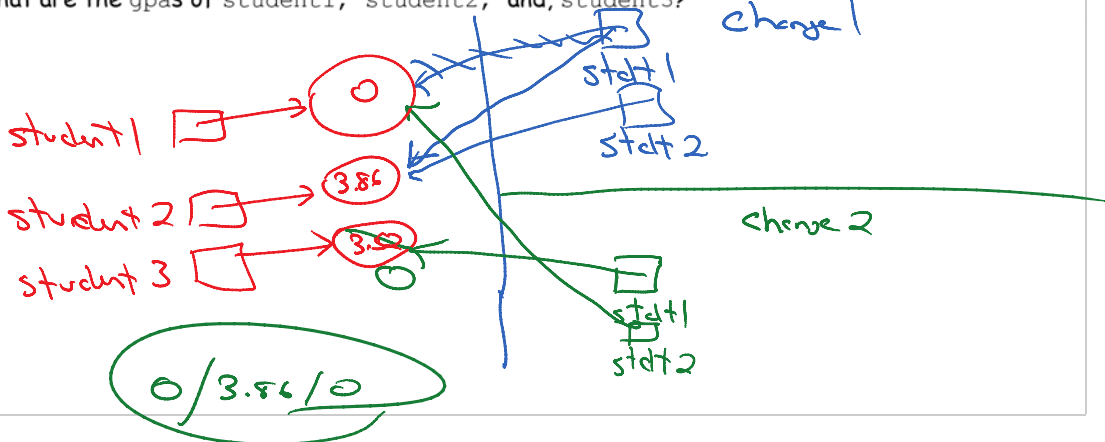
After the code segment below is executed,

```
Student student1 = new Student("", "", "", 0);  
Student student2 = new Student("Joe", "Smith", "111", 3.86);  
Student student3 = new Student("Marie", "Jones", "222", 3.52);
```

→ `change1(student1, student2);`

→ `change2(student3, student1);`

what are the gpas of `student1`, `student2`, and `student3`?

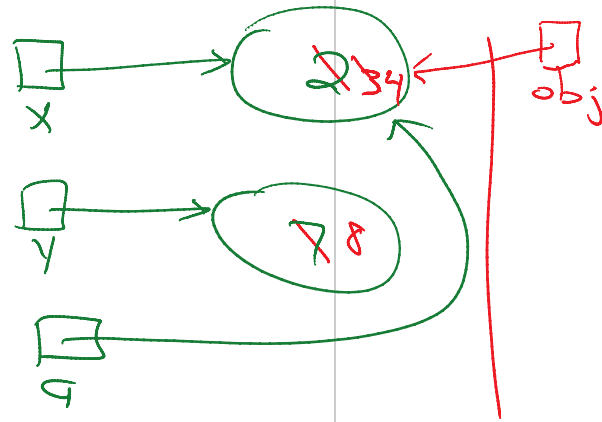


3. This question refers to the following class:

```
public class IntObject {  
    private int myInt;
```

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```
public class IntObject {  
    private int myInt;  
  
    public IntObject() {  
        myInt = 0;  
    }  
  
    public IntObject(int i) {  
        myInt = i;  
    }  
  
    public void increment() {  
        myInt++;  
    }  
}
```



Here is a client program that uses this class:

```
public class IntObjectDriver {  
    public static void main(String[] args) {  
        IntObject x = new IntObject(2);  
        IntObject y = new IntObject(7);  
        IntObject a = x;  
        someMethod(x);  
        someMethod(y);  
        someMethod(a);  
    }  
  
    public static void someMethod(IntObject obj) {  
        obj.increment();  
    }  
}
```

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After running the client, just before exiting, what are the object values of `x`, `y`, and `a`, respectively?