Assignment #7
Due Date: Friday April 28, 2017 11:59PM

Write a Java class that has the methods described below. Use *javadoc* style comments in your code. Your program must compile in order for your submission to be graded and it must work with the *main* method provided.

Description of methods:

1. Method *isInt*: accepts one *String* parameters and returns *true* if the string is an integer.
2. Method *isDouble*: accepts one *String* parameters and returns *true* if the string is a double.
3. Method *toInt*: accepts one *String* parameters and returns an *int* representation of the string. Use the *Integer* class in this method.
4. Method *toDouble*: accepts one *String* parameters and returns a *double* representation of the string. Use the *Double* class in this method.
5. Method *sumInt*: accepts two *int* parameters and returns their sum.
6. Method *sumDouble*: accepts two *doulbe* parameters and returns their sum.

Grading:

Item	Weight
✓ *javadoc* style comments with proper return and parameter tags	1
✓ 6 methods (*isInt*, *isDouble*, *sumInt*, *sumDouble*, *toInt*, and *toDouble*)	8
✓ Correct output	1
Total:	**10**

Sample Output

```
############################################################
Test 1
############################################################
9A is NOT an int
99 is an int
12 is an int
sum: 111
############################################################
Test 2
############################################################
1.1.3 is NOT a double
12.34 is a double
56.78 is a double
sum: 69.12
```

Test main()

```
public static void main(String[] args) {

    String s1;
    String s2;

    System.out.println("############################################################");
    System.out.println("Test 1");
    System.out.println("############################################################");

    s1 = "9A";
    if (isInt(s1))
        System.out.println(s1 + " is an int");
    else
        System.out.println(s1 + " is NOT an int");

    s1 = "99";
    s2 = "12";
    if (isInt(s1)) {

        System.out.println(s1 + " is an int");

        if (isInt(s2)) {

            System.out.println(s2 + " is an int");

            int x = toInt(s1);
            int y = toInt(s2);

            System.out.println("sum: " + (sumInt(x, y)));
        }
    }
    System.out.println("############################################################");
    System.out.println("Test 2");
    System.out.println("############################################################");

    s1 = "1.1.3";
    if (isDouble(s1))
        System.out.println(s1 + " is a double");
    else
        System.out.println(s1 + " is NOT a double");

    s1 = "12.34";
    s2 = "56.78";
    if (isDouble(s1)) {
        System.out.println(s1 + " is a double");
        if (isDouble(s2)) {
            System.out.println(s2 + " is a double");

            double x = toDouble(s1);
            double y = toDouble(s2);

            System.out.println("sum: " + (sumDouble(x, y)));
        }
    }
}
```