1. (9 points) Given the variable declarations and initializations, evaluate each expression below, and give the type and value of the result of the expression. If the expression cannot be evaluated or would result in an error, you may simply write “error” for the resulting type. Assume each expression is evaluated with the original values of the variables. (In other words, assume the expressions are independent and do not affect one another.) The first row has been done for you.

```java
int i = 77;
String s = "CS170 Spring";
char c = 'k';
```

<table>
<thead>
<tr>
<th>Expression</th>
<th>Result Datatype</th>
<th>Result Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>i+2</td>
<td>int</td>
<td>79</td>
</tr>
<tr>
<td>(char)i</td>
<td>char</td>
<td>'M'</td>
</tr>
<tr>
<td>(int)c</td>
<td>int</td>
<td>107</td>
</tr>
<tr>
<td>i + &quot;&quot; + c</td>
<td>String</td>
<td>“77k”</td>
</tr>
<tr>
<td>s.length()</td>
<td>int</td>
<td>12</td>
</tr>
<tr>
<td>s.charAt(4)</td>
<td>char</td>
<td>'0'</td>
</tr>
<tr>
<td>s.substring(3)</td>
<td>String</td>
<td>“70 Spring”</td>
</tr>
<tr>
<td>s.substring(3, 7)</td>
<td>String</td>
<td>“70 S”</td>
</tr>
<tr>
<td>i * 2 + s</td>
<td>String</td>
<td>“154CS170 Spring”</td>
</tr>
<tr>
<td>i + 1 + s</td>
<td>String</td>
<td>“78CS170 Spring”</td>
</tr>
</tbody>
</table>
2. Answer the following questions about the program below.

```java
public class Quiz02 {
    public static void printInt(int i) {
        System.out.println("i is: " + i);
    }

    public static void printDouble(double d) {
        System.out.println("d is: " + d);
    }

    public static void printChar(char c) {
        System.out.println("c is: " + c);
    }

    public static void main(String[] args) {
        System.out.println("Calling function 1...");
        printDouble(3.14159);
        printInt(4);
        System.out.println("Calling function 2...");
        int x = 4;
        printInt(x);
        System.out.println("Done here");
    }
}
```

(a) (3 points) Give the output of the program.

```
Solution: Calling function 1...
d is 3.14159
Calling function 2...
i is 4
Done here
```

Scoring:
+1 for value of d and i printed
+1 for order of output statements
+1 c NOT being printed (method not called)

(b) (3 points) Write the method header (or signature) for a method named `printTwoInts` with no return type and which takes 2 integers as parameters. You do not have to write the method body.

```
Solution: public static void printTwoInts(int i1, int i2)
```
Scoring:
+1 for void return type
+1 for int parameters w/ different names
+1 for method name and general syntax