

Software Design I (CS 120)
Quiz 03: Monday, 02 October 2017

NAME _____

(1) (5 points) Below, write out exactly what the **output** of the following code will be.

```
int int1 = 2;
int int2 = 3;
int int3 = int1 / 4;

double dub1 = 0.0;
double dub2 = 4.99;

int1 = int2;
int2 = (int)( int2 + dub2 );
dub1 = int2 / int1;
dub2 = int2 / 2.0;

System.out.print( "int1 = " + int1 );
System.out.print( " int2 = " + int2 );
System.out.println( " int3 = " + int3 );
System.out.print( "dub1 = " + dub1 );
System.out.print( " dub2 = " + dub2 );
```

- (2) (10 pts.) For each of the following, give the value of the variable `x` after each line (or pair of lines) executes. If the code produces an error, write **ERROR**.
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(a) `String s = " is a String";`
`String x = 5 + 3 + s;`

(b) `String s = 5 + 3;`
`String x = s + " is a String";`

(c) `String s = "String is ";`
`String x = s + 5 + 3;`

(d) `String s = "String is ";`
`String x = s + (5 + 3);`

(e) `String s = "Touchdown!";`
`char x = s.charAt(0);`

(f) `String s = "Touchdown!";`
`char x = s.charAt(s.length());`

(g) `String s = "Touchdown!";`
`String x = s.substring(2, 7);`

(h) `Scanner scan = new Scanner("86");`
`int x = scan.nextInt();`

(i) `Scanner scan = new Scanner("86");`
`double x = scan.nextDouble();`

(j) `Scanner scan = new Scanner("86 Hines Ward");`
`int x = scan.nextInt();`