

Software Design I (CS 120)
Quiz 03: Tuesday, 04 October 2016

NAME _____

- (1) (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 = "num = ";`
`String x = s + 9 + 2;`

(b) `String s = 9 + 2;`
`String x = "num = " + s;`

(c) `String s = "num = ";`
`String x = s + (9 + 2);`

(d) `String s = "Howdy!";`
`char x = s.charAt(1);`

(e) `String s = "Howdy!";`
`char x = s.charAt(s.length());`

(f) `String s = "Howdy!";`
`String x = s.substring(2, 4);`

(g) `String s = "Howdy!";`
`char x = s.substring(0, 1);`

(h) `Scanner scan = new Scanner("33");`
`int x = scan.nextInt();`

(i) `Scanner scan = new Scanner("33");`
`double x = scan.nextDouble();`

(j) `Scanner scan = new Scanner("11 25.5 34");`
`int x = scan.nextInt();`

(2) (5 points) Below, write out exactly what the **output** of the following code will be.

```
int int1 = 15;
int int2 = 2;
int int3 = 1;
double dub1 = 0.0;
double dub2 = 0.0;

dub1 = int1 / int2 ;
int2 = (int)( int2 + dub1 );
dub2 = int1 / 2.0;
dub1 = dub1 * 2;
int3 = int1;
int1 = int2;

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