Software Design I (CS 120)
Quiz 02: Tuesday, 14 February 2017

NAME _____

(1) (2 points) What are the values of the variables `num1` and `num2` after the following code runs?

```
int num1 = 1;
int num2 = 2;

num2 = num1;
num1 = 3;
```

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(2) (2 points) What are the values of the variables `num1` and `num2` after the following code runs?

```
int num1 = 4;
int num2 = 5;

num2 = num1;
num1 = num2;
```

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(3) (3 points) What are the values of the variables `num1`, `num2`, and `num3` after the following runs?

```
int num1 = 6;
int num2 = 7;
int num3 = num2;

num2 = num1;
num1 = num3;
```

(4) **(8 points)** For each of the following, give the value of the assigned variable. If the line of code produces an error, simply write **ERROR**.

Note: if a value is of `double` type, then make sure to always include a decimal place to indicate that fact (e.g., write `7.0` instead of just `7` for such values).

(a) `int xa = 9 / 2  * 6 - 1;`

(b) `int xb = 9 / 2  * ( 6 - 1 );`

(c) `int xc = 9 / ( 2  * 6 - 1 );`

(d) `int xd = 9 / 2.0 * 6 - 1;`

(e) `double xe = 9 / 2.0 * 6 - 1;`

(f) `double xf = 9 / 2 * 6 - 1;`

(g) `int xg = (int) 9 / 2.0 * 6 - 1;`

(h) `int xh = (int)( 9 / 2.0 * 6 - 1 );`