# Quiz 3: Operators SOLUTION
## CSCI 110 Section 1
Monday, August 22, 2016

1) Determine the result of evaluating each expression on the left: true, false, error, or don't know. [100 points]

```
1003 % 10 >= 2
```
true

```
2.35 * 4 != 8
```
true

```
21 / 3 + 8 * 4 - 11 < 28
```
false

```
"Hello" + 5 > "world"
```
error (try this in repl.it)

```
String s = "human";
s == "human"
```
don't know (see this explanation and other answers on that page)

```
("mario" + "mushroom")
    .equals("super mario")
```
false

```
int a = 2; int b = 56;
a - b < b + a
```
true

```
int num = 42;
num % 2 != 0
```
false

```
55 % 5 == 10
```
false

```
int x = 3; int y = 7; int z = 9;
x * z + y * x > y * z + z / x
```
false

2) What gets printed when the below code is run? [extra credit, 20 points]

```java
int a = 12;
int b = 24;
if (b / (a - 3) != 3) {
    System.out.println(b - a);
} else {
    System.out.println(a + b);
}
```

integer division: 24 / 9 == 2 (truncating decimals i.e. always rounding down). 2 != 3 is true, so the answer is b - a == **12**