CS 62 Quiz

Preconditions and Assertions

Mawhorter Spring 2017

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and an "if" that throws an exception?

2. What is wrong with the following constructor (assuming that the "gcd" function exists and correctly computes the greatest common denominator of two numbers)? Explain in a sentence or three.

```
public Fraction(int numerator, int denominator) {
   assert denominator != 0 : "Denominator can't be zero!";
   int div = gcd(numerator, denominator);
   this.top = numerator/div;
   this.bottom = denominator/div;
   if (this.top/this.bottom != numerator/denominator) {
      throw new RuntimeException("Simplification failed!");
   }
}
```