CSSE 230 WA1 textbook problems. The given problem numbers are from Weiss 4<sup>th</sup> edition; you can find the corresponding 3<sup>rd</sup> edition numbers in the Written Assignment 1 document.

2.13 What is wrong with this code?

public static void resize( int [ ] arr )
{
 int [ ] old = arr;
 arr = new int[ old.length \* 2 + 1 ];

 for( int i = 0; i < old.length; i++ )
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}</pre>

- 5.10 For the typical algorithms that you use to perform calculations by hand, determine the running time to
  - a. Add two N-digit integers
  - b. Multiply two N-digit integers
- 5.11 In terms of N, what is the running time of the following algorithm to compute  $X^N$ :

```
public static double power( double x, int n )
{
    double result = 1.0;

    for( int i = 0; i < n; i++ )
        result *= x;
    return result;
}</pre>
```

- 5.22 In a court case, a judge cited a city for contempt and ordered a fine of \$2 for the first day. Each subsequent day, until the city followed the judge's order, the fine was squared (that is, the fine progressed as follows: \$2, \$4, \$16, \$256, \$65536, . . . ).
  - a. What would be the fine on day N?
  - b. How many days would it take for the fine to reach D dollars (a Big-Oh answer will do)?