

CSSE 220 Binary Integer in-class programming problem.

I encourage you to work with another class-mate; each of you must submit it, but it is okay for this one assignment if what you submit is identical.

In our last class, we discussed implementing non-negative integers as binary strings (least significant digit first).

We did an algorithm for "succ" (the "addone" function). You are to implement

```
static String plus(String s1, String s2) {
```

which takes two string representations of binary integers, and returns their sum in the same representation.

You may use **Integer.parseInt()** and **Integer.toString()** or other similar methods only on single-bit binary numbers.

I.e. **Integer.parseInt(s)** is only allowed if **s** is "0" or "1", and **Integer.toString(x)** is only allowed if **x** is 0 or 1.

You must do the arithmetic using the **String** representation. I.e., you are not allowed to convert multi-digit strings to the corresponding integers, add the integers, and convert back to **Strings**. Try to write the code in such a way as to minimize special cases that your code must test.

The initial code is in your repository in the **BinaryInteger** project. When your code passes all of my provided unit tests, you should commit your code back to your repository.