# Practice Assignment: W02-1_09-05_1

CISC 3120 Section ER6

Design and Implementation of Software Applications I

In the class we discussed the command line arguments. The following program adds two command line arguments to the BeerSong program. However, the program also introduces at least two bugs in the program. Find and fix at least *one* bug in the program.

```java
/**
 * To compile it from the Command Line:
 *      javac BeerSong.java
 * To run it from the Command Line:
 *      java BeerSong
 */
public class BeerSong {
    public static void main (String[] args) {
        int beerNum = 99;
        int takeDownNum = 1;

        /*
         * add command line arguments to set starting bottles of
         * beer and the bottles of beer to take down. However, this
         * revision introduces two bugs to the program. What are they?
         * */
        if (args.length == 1) {
            beerNum = Integer.parseInt(args[0]);
        } else if (args.length >= 2) {
            beerNum = Integer.parseInt(args[0]);
            takeDownNum = Integer.parseInt(args[1]);
        }

        String word = "bottles";

        while (beerNum > 0 ) {
            if (beerNum ==1) {
                word = "bottle";
            }

            System.out.println(beerNum + " " + word + " of beer on the wall");
            System.out.println(beerNum + " " + word + " of beer.");
            System.out.println("Take one down.");
            System.out.println("Pass it around.")  ;
            beerNum -= takeDownNum;

            if (beerNum > 0) {
                System.out.println(beerNum + " " + word + " of beer on the wall");
            } else {
                System.out.println("No more bottles of beer on the wall.");
            } // end else
        } // end while loop
    } // end main method
} // end class
```

This source code above is in the "sampleprograms" repository. For your convenience, the URL of the repository is provided again as follows,

`https://github.com/CISC3120/sampleprograms`.

If you have already cloned it, you can download the program by doing a `git pull`. Regardless, you need to copy the source code to your own weekly programming practice repository, and make updates in your repostiory, and push your updates to Github.