Lab: Using a Combiner

In this lab, you will add a Combiner to the WordCount program to reduce the amount of intermediate data sent from the Mapper to the Reducer.

Implement a Combiner

1. Input Data

Use the same input data as in the tutorial from CS246. You can download the data by running the following command:

```
curl http://www.gutenberg.org/cache/epub/100/pg100.txt | \
perl -pe 's/^\xEF\xBB\xBF//' > pg100.txt
```

2. Source code

You will find the source files in the src directory. In the src directory you will also find a hints directory that contains a copy of the source files modified to make the assignment easier to complete, and a solution directory that contains a copy of the source files modified to complete the assignment.

- 3. The WordCountDriver.java file contains a functional WordCount program. Note that the reducer in this program performs a summing operation, which is associative and commutative. Modify the WordCountDriver.java code to add a combiner for the WordCount program.
- 4. Assemble and test your solution. (The output should remain identical to the WordCount application without a combiner.)