# Sorting:

## TestDriver.java

import org.apache.hadoop.fs.Path;

import org.apache.hadoop.io.IntWritable; import org.apache.hadoop.io.Text;

import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;

import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat; import org.apache.hadoop.mapreduce.Job;

public class TestDriver {

public static void main(String[] args) throws Exception { if (args.length != 2) {

System.out.printf("Usage: WordCount <input dir>

<output dir>\n");

System.exit(-1);

}

Job job = new Job();

job.setJarByClass(testdriver.class); job.setJobName("Word Count");

FileInputFormat.setInputPaths(job, new Path(args[0])); FileOutputFormat.setOutputPath(job, new Path(args[1]));

job.setMapperClass(testmap.class);

job.setReducerClass(testreduce.class);

job.setMapOutputKeyClass(IntWritable.class);

job.setMapOutputValueClass(IntWritable.class);

job.setOutputKeyClass(IntWritable.class);

job.setOutputValueClass(IntWritable.class);

boolean success = job.waitForCompletion(true); System.exit(success ? 0 : 1);

}

}

## TestMap.java

import java.io.IOException;

import org.apache.hadoop.io.IntWritable; import org.apache.hadoop.io.LongWritable; import org.apache.hadoop.io.Text;

import org.apache.hadoop.mapreduce.Mapper;

public class TestMap extends Mapper<LongWritable, Text, IntWritable, IntWritable> {

@Override

public void map(LongWritable key, Text value, Context context) throws IOException, InterruptedException {

String line = value.toString();

String[] tokens = line.split(","); // This is the delimiter between

int keypart = Integer.parseInt(tokens[0]);

int valuePart = Integer.parseInt(tokens[1]); context.write(new IntWritable(valuePart), new

IntWritable(keypart));

}

}

## TestReduce.java

import java.io.IOException;

import org.apache.hadoop.io.IntWritable;

import org.apache.hadoop.mapreduce.Reducer;

public class TestReduce extends Reducer<IntWritable, IntWritable, IntWritable, IntWritable> {

@Override

public void reduce(IntWritable key, Iterable<IntWritable> values, Context context)

throws IOException, InterruptedException {

for (IntWritable value : values) { context.write(value, key);

}

}

}

## Command:

hadoop jar SortingAmazonOrders.jar testdriver amazon-orders.txt ResultSortingAmazonOrders