

## Television

```
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.conf.*;
import org.apache.hadoop.mapreduce.Job;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
import org.apache.hadoop.mapreduce.lib.input.TextInputFormat;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;
import org.apache.hadoop.mapreduce.lib.output.TextOutputFormat;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.Text;

public class TVWordCount {
    @SuppressWarnings("deprecation")
    public static void main(String[] args) throws Exception {
        Configuration conf = new Configuration();
        Job job = new Job(conf, "Hope it will be successful");
        job.setJarByClass(TVWordCount.class);

        job.setMapOutputKeyClass(Text.class);
        job.setMapOutputValueClass(IntWritable.class);

        job.setOutputKeyClass(Text.class);
        job.setOutputValueClass(IntWritable.class);
        job.setMapperClass(TvMapper.class);
        job.setReducerClass(TvReducer.class);

        job.setInputFormatClass(TextInputFormat.class);
        job.setOutputFormatClass(TextOutputFormat.class);

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

        job.waitForCompletion(true);
    }
}
```

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## Mapper

```
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.*;

public class TvMapper extends Mapper<LongWritable, Text, Text,
IntWritable> {
    Text outKey = new Text();
    IntWritable outValue = new IntWritable();
}
```

```

        public void map(LongWritable key, Text value, Context context)
            throws IOException, InterruptedException {
            String[] lineArray = value.toString().split("\\|");
            outKey.set(lineArray[0]);
            outValue.set(1);
            context.write(outKey, outValue);
        }
    }
}

```

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## Reducer

```

import java.io.IOException;

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

public class TvReducer extends Reducer<Text, IntWritable, Text,
IntWritable>
{
    IntWritable outValue = new IntWritable();

    public void reduce(Text key, Iterable<IntWritable> values, Context
context) throws IOException, InterruptedException
    {
        int sum = 0;
        for (IntWritable value : values) {
            sum += value.get();
        }

        outValue.set(sum);
        context.write(key, outValue);
    }
}

```