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package it.polito.bigdata.hadoop.exercise17;

import java.io.IOException;

import org.apache.hadoop.io.*;
import org.apache.hadoop.mapreduce.Reducer;

/**
 * WordCount Reducer
 */
class ReducerBigData extends Reducer<
    Text,           // Input key type
    FloatWritable,  // Input value type
    Text,           // Output key type
    FloatWritable> { // Output value type

    @Override
    protected void reduce(
        Text key, // Input key type
        Iterable<FloatWritable> values, // Input value type
        Context context) throws IOException, InterruptedException {

        float max=Float.MIN_VALUE;

        // Iterate over the set of values and find the maximum value
        for (FloatWritable value : values) {
            if (value.get()>max)
                max=value.get();
        }

        // Emit pair (date, maximum temperature)
        context.write(new Text(key), new FloatWritable(max));
    }
}

```