DBMSProject(skila001, skila001@ucr.edu, Srikar Kilambi)

First I joined the Weatherstationlocations.csv file with the year txt file in the hdfs.I did this join with state as the key and date, temperature as the value.It took about 1.5 minutes.

In the next job I computed the average for each month in each state. This took about 1 seconds

```
reader.close();

| public void map(longWritable key ,Text value, Context context) throws IOException, InterruptedException {
| String value!=value.toString().replaceAli("\\s+","");
| if value!.contains("STN--- MANN YEARMOOA TEMP DEMP SLP STP VISIB WDSP MXXPD GUST MAX MIN PRCP SNDP FRSHIT"))
| return;
| else
| {
| String cols[]=value1.toString().split("");
| int id= Integer.parseInt(cols[0]);
| String date=cols[2].substring(4,6);
| String slace= userdata.get(wsciid);
| String slace= userdata.get(wsciid);
| String slace= userdata.get(id);
| if(state=null) {
| return;
| outkey.set(state+""+date);
| outvalue.set(temp);
| context.write(outkey,outvalue);
| }
| }
| public static class mapReducer extends Reducer <Text,Text,Text,Text > {
| public void reduce(Text key, Iterable<Text>values, Context context) throws IOException,InterruptedException
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| Description | Text outvalue=new Text(); | Text outvalue=new Text(); | Text outvalue=new Text(); | Text outvalue=new Text(); | Text outkey = new Text(); | Text out = new Text(); | T
```

Then I found the maximum and minimum averages and printed them with their corresponding month values as required. Followed by the difference between them. This took about 1 minute.

In the final job I sorted the difference to find the state with stable temperature. This took about 30 seconds