```
from pyspark import SparkConf, SparkContext
def run(args):
         start time = time.time()
         recordings = recordings.select(recordings.value.substr(1, 6).alias('STN'),recordings.value.substr(15, 8).alias('YEARMODA'), recordings.value.substr(27, 4).alias('TEMP')
          #convenrt the numerical months into strings
         recordings = recordings.withColumn('YEARMODA', regexp_replace('YEARMODA', '01', 'January'))
recordings = recordings.withColumn('YEARMODA', regexp_replace('YEARMODA', '02', 'February'))
recordings = recordings.withColumn('YEARMODA', regexp_replace('YEARMODA', '03', 'March'))
        recordings = recordings.withColumn('YEARMODA', regexp_replace('YEARMODA', '03', 'March'))
recordings = recordings.withColumn('YEARMODA', regexp_replace('YEARMODA', '04', 'April'))
recordings = recordings.withColumn('YEARMODA', regexp_replace('YEARMODA', '05', 'May'))
recordings = recordings.withColumn('YEARMODA', regexp_replace('YEARMODA', '06', 'June'))
recordings = recordings.withColumn('YEARMODA', regexp_replace('YEARMODA', '07', 'July'))
recordings = recordings.withColumn('YEARMODA', regexp_replace('YEARMODA', '08', 'August'))
recordings = recordings.withColumn('YEARMODA', regexp_replace('YEARMODA', '09', 'September'))
         recordings = recordings.withColumn('YEARMODA', regexp_replace('YEARMODA', '10', '0ctober'))
recordings = recordings.withColumn('YEARMODA', regexp_replace('YEARMODA', '11', 'November'))
recordings = recordings.withColumn('YEARMODA', regexp_replace('YEARMODA', '12', 'December'))
         #Filter out country to US, and States/territories that are in the statelist
```

```
stalocs = stalocs.where(stalocs.STATE.isNotNull())
statelist = ['AL', 'AK', 'AS', 'AZ', 'AR', 'CA', 'CO', 'CT', 'DE', 'DC', 'FM', 'FL', 'GA', 'GU', 'HI',

'ID', 'IL', 'IN', 'KS', 'KY', 'LA', 'ME', 'MH', 'MD', 'MA', 'MI', 'MM', 'MS', 'MO',

'MT', 'NE', 'NV', 'NH', 'NJ', 'NM', 'NY', 'NC', 'ND', 'MP', 'OH', 'OK', 'OR', 'PW', 'PA',

'PR', 'RI', 'SC', 'SD', 'TN', 'TX', 'UT', 'VT', 'VI', 'WA', 'WV', 'WI', 'WY', 'AE',

'AA', 'AP']
#select only the USAF and STATE columns
#round the average temp to 3 decimal places
final = final.withColumn("avg(TEMP)", func.round(final["avg(TEMP)"], 3))
#create window partition to partition by State, and order by month
windowSpec = Window.partitionBy(final['STATE']).orderBy(final['YEARMODA'].desc()).rangeBetween(-sys.maxsize, sys.maxsize)
#function for calculating difference between max avg temp and min avg temp for each State
temp_diff = (func.max(final['avg(TEMP)']).over(windowSpec) - func.min(final['avg(TEMP)']).over(windowSpec))
            final['YEARMODA'],
final['avg(TEMP)'],
             temp_diff.alias("td"), func.max(final['avg(TEMP)']).over(windowSpec), func.min(final['avg(TEMP)']).over(windowSpec))
finalymax = finaly.select(final['STATE']_finaly['YEARMODA']_finaly['avg(TEMP)']_finaly['td']_finaly['max']_finaly['min']).where((finaly['avg(TEMP)'] == finaly['max']))
# Create new df with only the MIN average temps for each state its month. each state will appear only once
print('AVERAGE TEMP FOR EACH STATE AND MONTH')
finalymin = finalymin.withColumn("min", finalymax["min"].cast(StringType())) \\ finalymax = finalymax.withColumn("max", finalymax["max"].cast(StringType())) \\ finalymax["max"].cast(StringType()) \\ finalymax["max"].cast(StringType
```

```
finalymax = finalymax.withColumn("max", finalymax["max"].cast(StringType()))
final.coalesce(1).write.format('com.databricks.spark.csv').save(args.output + 'avqTemp state.csv', header='true')
finalymax.coalesce(1).write.format('com.databricks.spark.csv').save(args.output + 'Max_avqtemp.csv'_header_='true')
finalymin.coalesce(1).write.format('com.databricks.spark.csv').save(args.output + 'Min_avqtemp.csv', header='true')
__name__ == '__main__':
parser = argparse.ArgumentParser()
```

!python 2006.py --r ./weather -- | ./weather/loc --o ./weather

19/12/01 00:04:36 WARN Utils: Your hostname, fad-System-Product-Name resolves to a loopback address: 127.0.1.1; using 192.168.1.8 instead (on interface wlp6s0) 19/12/01 00:04:36 WARN Utils: Set SPARK_LOCAL_IP if you need to bind to another address 19/12/01 00:04:36 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable Setting default log level to "WARN".

To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLevel(newLevel). AVERAGE TEMP FOR EACH STATE AND MONTH

+----+

|STATE| YEARMODA|avg(TEMP)|count(1)|

+----+

- | AK| April| 28.478| 31977|
- | AK| August| 52.271| 24118|
- | AK| December| 18.021| 24494|
- | AK| February| 19.754| 29298|
- | AK| January| 18.417| 31888|
- | AK| July| 54.521| 26840|
- | AK| June| 50.219| 32125|
- | AK| March| 17.851| 32191|
- | AK| May| 41.671| 32980|
- | AK| November| 20.649| 23701|
- | AK| October| 31.681| 24577|
- | AK|September| 46.628| 23696|
- | AL| April| 63.859| 5749|
- | AL| August| 81.296| 4301|
- | AL| December| 51.562| 4487|
- | AL| February| 48.477| 5279|
- | AL| January| 47.651| 5717|
- | AL| July| 80.093| 4768|
- | AL| June| 79.366| 5841|
- | AL| March| 57.961| 5850|
- | AL| May| 71.79| 5977|
- | AL| November| 53.644| 4297|
- | AL| October| 64.499| 4429|
- | AL|September| 74.789| 4254|
- | AR| April| 60.502| 6559|
- | AR| August| 80.894| 5098|
- | AR| December| 42.657| 5184|
- | AR| February| 42.86| 6162|

- | AR| January| 40.526| 6834|
- | AR| July| 79.811| 5641|
- | AR| June| 77.71| 6747|
- | AR| March| 54.468| 6835|
- | AR| May| 69.24| 6913|
- | AR| November| 50.403| 5046|
- | AR| October| 60.917| 5250|
- | AR|September| 71.204| 5064|
- | AZ| April| 64.317| 6932|
- | AZ| August| 78.65| 5250|
- | AZ| December| 45.264| 5287|
- | AZ| February| 50.824| 6407|
- | AZ| January| 46.253| 7025|
- | AZ| July| 76.111| 5679|
- | AZ| June| 78.225| 6942|
- | AZ| March| 57.202| 7191|
- | AZ| May| 74.55| 7146|
- | AZ| November| 57.925| 5163|
- | AZ| October| 66.948| 5334|
- | AZ|September| 76.846| 5148|
- | CA| April| 57.602| 23929|
- | CA| August| 72.366| 18001|
- | CA| December| 48.124| 18576|
- | CA| February| 51.275| 22459|
- | CA| January| 49.247| 24463|
- | CA| July| 72.594| 19831|
- | CA| June| 68.621| 24155|
- | CA| March| 53.892| 24661|
- | CA| May| 64.038| 24878|
- | CA| November| 56.774| 17950|
- | CA| October| 62.332| 18509|
- | CA|September| 68.493| 17775|
- | CO| April| 43.233| 8798|
- | CO| August| 66.264| 6698|
- | CO| December| 24.131| 6812|
- | CO| February| 27.41| 8271|
- | CO| January| 23.18| 9150|
- | CO| July| 68.828| 7408|
- | CO| June| 62.735| 8869|
- | CO| March| 35.691| 9125|
- | CO| May| 53.518| 9065|
- | CO| November | 36.354 | 6641 |
- | CO| October| 46.151| 6770|

- | CO|September| 56.488| 6491|
- | CT| April| 49.085| 2662|
- | CT| August| 70.636| 2050|
- | CT| December| 36.415| 2154|
- | CT| February| 30.74| 2534|
- | CT| January| 31.757| 2776|
- | CT| July| 72.951| 2247|
- | CT| June| 66.965| 2650|
- | CT| March| 37.889| 2859|
- | CT| May| 57.9| 2716|
- | CT| November| 44.457| 2100|
- | CT| October| 55.362| 2106|
- | CT|September| 65.021| 2082|
- | DC| April| 57.773| 30|
- | DC| August| 76.54| 30|
- DC| December| 41.265| 31|
- DC| February | 40.214 | 28 |
- | DC| January| 32.229| 31|
- DC| July| 77.44| 15|
- DC| June| 74.397| 30|
- DC| March| 45.529| 31|
- | DC| May| 66.319| 31|
- | DC| November| 47.683| 30|
- DC| October| 58.784| 31|
- | DC|September| 72.543| 30|
- DE| April| 54.152| 1102|
- | DE| August| 75.736| 819|
- DE| December| 41.476| 919|
- | DE| February| 36.278| 1038|
- DE| January| 37.116| 1147|
- | DE| July| 76.732| 894|
- DE| June| 72.446| 1102|
- | DE| March| 44.352| 1114|
- DE| May| 62.869| 1137|
- | DE| November| 48.133| 859|
- | DE| October| 59.471| 885|
- | DE|September| 69.26| 832|
- | FL| April| 71.33| 17131|
- | FL| August| 82.565| 12717|
- | FL| December| 65.285| 13190|
- | FL| February| 61.382| 15833|
- | FL| January| 61.379| 17439|
- | FL| July| 81.672| 14079|

- | FL| June| 80.847| 17017|
- | FL| March| 66.776| 17547|
- | FL| May| 76.626| 17632|
- | FL| November| 65.23| 12674|
- | FL| October| 74.798| 13081|
- | FL|September| 80.223| 12494|
- | GA| April| 63.99| 9985|
- | GA| August| 80.865| 7497|
- | GA| December| 52.295| 7825|
- | GA| February| 48.884| 9467|
- | GA| January| 48.221| 10346|
- | GA| July| 79.53| 8287|
- | GA| June| 78.847| 10012|
- | GA| March| 57.392| 10395|
- | GA| May| 71.423| 10353|
- | GA| November| 53.492| 7492|
- | GA| October| 64.545| 7684|
- | GA|September| 74.366| 7426|
- | HI| April| 72.038| 2533|
- | HI| August| 77.724| 1854|
- | HI| December| 72.548| 1922|
- | HI| February| 69.768| 2347|
- | HI| January| 70.941| 2536|
- | HI| July| 77.325| 2035|
- | HI| June| 76.399| 2551|
- | HI| March| 71.377| 2641|
- | HI| May| 73.967| 2627|
- | HI| November| 74.303| 1853|
- | HI| October| 76.219| 1921|
- | HI|September| 77.161| 1797|
- | IA| April| 49.528| 11938|
- | IA| August| 72.74| 9042|
- | IA| December| 25.393| 9111|
- | IA| February| 23.356| 11272|
- | IA| January| 23.395| 12436|
- | IA| July| 74.585| 9981|
- | IA| June| 70.898| 11903|
- | IA| March| 38.18| 12344|
- | IA| May| 61.961| 12352|
- | IA| November| 38.863| 8870|
- | IA| October| 52.428| 9267|
- | IA|September| 63.07| 8781|
- | ID| April| 43.342| 4170|

- | ID| August| 67.558| 3203|
- | ID| December| 25.441| 3243|
- | ID| February| 28.935| 3899|
- | ID| January| 24.627| 4362|
- | ID| July| 72.362| 3506|
- | ID| June| 61.683| 4132|
- | ID| March| 35.491| 4334|
- | ID| May| 54.141| 4323|
- | ID| November| 36.181| 3130|
- | ID| October| 44.921| 3223|
- | ID|September| 56.968| 3076|
- | IL| April| 53.0| 13098|
- | IL| August| 74.755| 9945|
- | IL| December| 32.352| 10265|
- | IL| February| 28.769| 12261|
- | IL| January| 29.92| 13624|
- | IL| July| 74.612| 10977|
- | IL| June| 72.657| 13044|
- | IL| March| 43.465| 13586|
- | IL| May| 63.297| 13585|
- | IL| November| 42.657| 9854|
- | IL| October| 55.4| 10214|
- | IL|September| 66.621| 9782|
- | IN| April| 52.509| 4498|
- 114 71011 02:0001 11001
- | IN| August| 74.108| 3377|
- | IN| December| 33.047| 3519|
- | IN| February| 28.338| 4229|
- | IN| January| 30.237| 4639|
- | IN| July| 74.046| 3718|
- | IN| June| 71.732| 4418|
- | IN| March| 42.454| 4603|
- | IN| May| 62.404| 4588|
- | IN| November| 42.461| 3385|
- | IN| October| 55.357| 3453|
- | IN|September| 66.466| 3321|
- | KS| April| 54.481| 6038|
- | KS| August| 78.864| 4582|
- | KS| December| 32.741| 4639|
- | KS| February| 34.449| 5664|
- | KS| January| 32.811| 6194|
- | KS| July| 79.094| 5061|
- | KS| June| 75.005| 6036|
- | KS| March| 47.072| 6217|

- | KS| May| 65.508| 6225|
- | KS| November| 44.705| 4504|
- | KS| October| 57.179| 4647|
- | KS|September| 67.643| 4508|
- | KY| April| 57.234| 3144|
- | KY| August| 78.057| 2342|
- | KY| December| 40.328| 2392|
- | KY| February| 36.497| 2908|
- | KY| January| 37.011| 3170|
- | KY| July| 75.913| 2601|
- | KY| June| 74.338| 3128|
- KY| March| 49.411| 3169|
- | KY| May| 65.584| 3240|
- | KY| November| 45.949| 2308|
- | KY| October| 58.389| 2433|
- | KY|September| 69.784| 2324|
- | LA| April| 67.928| 7329|
- | LA| August| 82.524| 5385|
- | LA| December| 55.369| 5664|
- | LA| February| 55.16| 6667|
- | LA| January| 52.453| 7076|
- | LA| July| 81.742| 6002|
- | LA| June| 80.866| 7317|
- | LA| March| 62.593| 7332|
- | LA| May| 74.928| 7475|
- | LA| November| 59.533| 5576|
- | LA| October| 69.182| 5678|
- | LA|September| 77.418| 5190|
- | MA| April| 47.179| 5808|
- | MA| August| 68.767| 4202|
- | MA| December| 34.986| 4477|
- | MA| February| 29.058| 5447|
- | MA| January| 30.123| 6006|
- MA| July| 71.517| 4646|
- | MA| June| 65.1| 5685|
- | MA| March| 36.046| 6006|
- | MA| May| 56.441| 5985|
- | MA| November| 43.114| 4311|
- | MA| October| 52.997| 4374|
- | MA|September| 62.865| 4214|
- | MD| April| 54.793| 3861|
- | MD| August| 75.692| 2943|
- | MD| December| 40.416| 3301|

- | MD| February| 35.986| 3562|
- | MD| January| 36.455| 3984|
- | MD| July| 76.508| 3372|
- | MD| June| 72.806| 4065|
- MD| March| 44.899| 3911|
- | MD| May| 63.48| 4010|
- MD| November| 47.146| 3202|
- | MD| October| 58.762| 3224|
- | MD|September| 68.873| 2913|
- | ME| April| 42.324| 4219|
- | ME| August| 63.67| 3180|
- | ME| December| 25.692| 3256|
- | ME| February | 20.909 | 3900 |
- | ME| January| 20.766| 4292|
- | ME| July| 66.621| 3480|
- | ME| June| 61.132| 4226|
- | ME| March| 29.347| 4310|
- | ME| May| 52.449| 4357|
- ME| November| 37.773| 3183|
- | ME| October| 48.034| 3248|
- | ME|September| 58.007| 3139|
- | MI| April| 44.906| 16569|
- | MI| August| 68.276| 12426|
- | MI| December| 27.862| 13024|
- | MI| February| 22.056| 15367|
- | MI| January| 24.554| 16979|
- MI| July| 68.786| 13863|
- | MI| June| 64.578| 16585|
- | MI| March| 32.652| 16988|
- MI| May| 54.958| 17248|
- | MI| November| 37.968| 12646|
- | MI| October| 49.957| 12806|
- | MI|September| 60.881| 12362|
- | MN| April| 43.772| 20977|
- | MN| August| 67.955| 15968|
- MN| December| 17.253| 16130|
- | MN| February| 14.836| 19591|
- | MN| January| 16.38| 21548|
- MN| July| 71.154| 17570|
- | MN| June| 65.35| 20887|
- | MN| March| 29.335| 21666|
- | MN| May| 56.291| 21669|
- | MN| November| 32.587| 15745|

- | MN| October| 46.807| 16149|
- | MN|September| 58.905| 15624|
- | MO| April| 55.493| 4663|
- | MO| August| 78.257| 3498|
- | MO| December| 34.872| 3562|
- | MO| February| 33.655| 4341|
- | MO| January| 33.221| 4745|
- | MO| July| 77.524| 3903|
- MO| June| 74.547| 4697|
- | MO| March| 47.706| 4783|
- | MO| May| 65.675| 4826|
- MO| November| 45.299| 3468|
- | MO| October| 56.977| 3562|
- | MO|September| 67.688| 3436|
- | MS| April| 64.919| 3833|
- | MS| August| 81.985| 2749|
- | MS| December| 51.438| 2958|
- | MS| February| 49.742| 3583|
- MS| January| 48.125| 3848|
- MS| July| 80.781| 3156|
- MS| June| 79.994| 3948|
- MS| March| 59.072| 3965|
- | MS| May| 72.783| 4004|
- | MS| November| 54.42| 2722|
- | MS| October| 65.22| 2838|
- | MS|September| 75.158| 2745|
- | MT| April| 42.692| 3780|
- | MT| August| 68.142| 2986|
- | MT| December| 22.695| 2948|
- | MT| February| 24.322| 3522|
- | MT| January| 24.147| 3869|
- | MT| July| 72.894| 3303|
- | MT| June| 61.696| 3935|
- MT| March| 33.5| 3905|
- MT| May| 53.628| 3909|
- | MT| November| 33.804| 2816|
- | MT| October| 44.158| 2959|
- | MT|September| 55.771| 2980|
- | NC| April| 60.634| 15546|
- | NC| August| 78.958| 11746|
- | NC| December| 48.682| 12290|
- | NC| February| 44.43| 14773|
- | NC| January| 44.159| 16322|

- | NC| July| 77.559| 12925|
- | NC| June| 75.846| 15520|
- | NC| March| 52.561| 16211|
- | NC| May| 67.06| 16085|
- | NC| November| 51.074| 11845|
- | NC| October| 61.767| 12243|
- | NC|September| 71.658| 11745|
- | ND| April| 42.314| 2570|
- | ND| August| 68.501| 1955|
- | ND| December| 15.397| 2013|
- | ND| February| 13.656| 2372|
- | ND| January| 16.402| 2658|
- | ND| July| 72.138| 2175|
- | ND| June| 63.709| 2600|
- | ND| March| 26.856| 2633|
- | ND| May| 54.362| 2646|
- | ND| November | 29.852 | 1950 |
- | ND| October| 43.858| 2013|
- | ND|September| 57.451| 1940|
- | NE| April| 48.639| 7936|
- | NE| August| 73.603| 6035|
- | NE| December| 25.61| 6157|
- | NE| February| 27.386| 7422|
- | NE| January| 26.458| 8135|
- 1 112 January 20. 100 0100
- | NE| July| 76.31| 6651|
- | NE| June| 70.132| 7928|
- | NE| March| 39.404| 8199|
- | NE| May| 61.059| 8194|
- | NE| November| 38.514| 5950|
- | NE| October| 51.186| 6125|
- | NE|September| 62.618| 5920|
- | NH| April| 43.666| 3020|
- | NH| August| 64.893| 2274|
- | NH| December | 27.533 | 2376 |
- | NH| February | 22.349 | 2798 |
- NH| January| 22.781| 3093|
- NH July 67.834 2525
- | NH| June| 62.73| 3010|
- | NH| March| 30.335| 3057|
- | NH| May| 53.834| 3121|
- | NH| November| 37.69| 2302|
- | NH| October| 48.103| 2337|
- | NH|September| 58.802| 2232|

- | NJ| April| 52.089| 3497|
- | NJ| August| 73.145| 2608|
- | NJ| December| 38.525| 2737|
- | NJ| February| 33.02| 3309|
- | NJ| January| 34.227| 3580|
- | NJ| July| 75.293| 2861|
- NJ| June| 70.166| 3442|
- | NJ| March| 41.409| 3637|
- | NJ| May| 61.075| 3575|
- NJ| November| 45.99| 2659|
- | NJ| October| 56.308| 2695|
- | NJ|September| 66.736| 2572|
- | NM| April| 56.07| 5431|
- | NM| August| 73.492| 4154|
- | NM| December| 36.284| 4100|
- | NM| February| 41.791| 5022|
- NM| January| 35.723| 5518|
- NM| July| 75.116| 4522|
- NM| June| 74.074| 5431|
- NM| March| 48.593| 5647|
- NM| May| 65.274| 5656|
- | NM| November| 46.171| 4022|
- | NM| October| 56.957| 4202|
- | NM|September| 65.802| 4106|
- | NV| April| 55.998| 2725|
- | NV| August| 81.074| 2090|
- | NV| December| 35.063| 2047|
- | NV| February | 41.831 | 2701 |
- | NV| January| 36.318| 2904|
- | NV| July| 82.584| 2257|
- NV| June| 76.394| 2701|
- | NV| March| 48.178| 2895|
- | NV| May| 68.098| 2752|
- | NV| November| 48.18| 2144|
- | NV| October| 57.776| 2171|
- | NV|September| 70.671| 2054|
- | NY| April| 47.968| 8128|
- | NY| August| 69.407| 5981|
- | NY| December | 33.304 | 6300 |
- | NY| February| 26.885| 7613|
- | NY| January| 28.886| 8414|
- | NY| July| 71.263| 6667|
- | NY| June| 66.606| 8027|

- | NY| March| 35.053| 8399|
- | NY| May| 57.181| 8335|
- | NY| November | 41.89 | 6002 |
- | NY| October| 52.805| 6201|
- | NY|September| 63.198| 5925|
- OH April 51.639 7308
- OH August 73.076 5582
- | OH| December| 34.099| 5853|
- | OH| February| 27.948| 6925|
- OH January 30.308 7572
- | OH| July| 72.675| 6078|
- OH June 69.985 7336
- | OH| March| 40.111| 7566|
- OH May 60.963 7587
- | OH| November| 42.262| 5591|
- | OH| October| 54.524| 5660|
- | OH|September| 65.603| 5457|
- OK| April| 60.441| 10214|
- | OK| August| 82.251| 7679|
- | OK| December| 40.414| 7661|
- | OK| February| 43.097| 9592|
- | OK| January| 40.092| 10454|
- | OK| July| 81.98| 8559|
- | OK| June| 78.406| 10157|
- OK| March| 54.673| 10575|
- | OK| May| 69.514| 10582|
- | OK| November| 51.224| 7561|
- | OK| October| 62.052| 7733|
- | OK|September| 71.83| 7506|
- | OR| April| 47.216| 6092|
- | OR| August| 65.509| 4651|
- OR December 36.259 4725
- OR| February| 39.177| 5640|
- | OR| January| 36.482| 6175|
- OR July 67.969 5103
- OR June 60.657 6167
- OR March 42.584 6252
- OR May 55.461 6313
- | OR| November| 44.041| 4591|
- | OR| October| 50.037| 4748|
- | OR|September| 59.482| 4576|
- | PA| April| 51.173| 7568|
- | PA| August| 71.494| 5724|

- | PA| December| 35.315| 5915|
- PA| February| 29.135| 6992|
- | PA| January| 31.345| 7761|
- | PA| July| 72.616| 6321|
- PA| June| 68.857| 7568|
- | PA| March| 39.642| 7762|
- | PA| May| 60.0| 7732|
- | PA| November| 42.892| 5683|
- | PA| October| 53.829| 5833|
- | PA|September| 64.403| 5607|
- | PR| April| 78.442| 243|
- | PR| August| 82.797| 188|
- | PR| December| 78.323| 189|
- | PR| February| 76.707| 226|
- | PR| January| 76.692| 270|
- PR| July| 82.201| 196|
- | PR| June| 81.635| 224|
- | PR| March| 77.091| 267|
- PR| May| 80.108| 259|
- | PR| November| 79.664| 204|
- | PR| October| 81.991| 205|
- | PR|September| 82.581| 209|
- | RI| April| 48.504| 1650|
- | RI| August| 70.896| 1325|
- | RI| December| 38.128| 1313|
- | RI| February| 32.17| 1544|
- | RI| January| 33.539| 1686|
- RI| July| 73.009| 1427|
- | RI| June| 66.294| 1665|
- RII Marchi 38.623 1679
- | RI| May| 57.3| 1707|
- | RI| November| 46.055| 1374|
- RI| October| 56.017| 1378|
- RI|September| 65.389| 1272|
- | SC| April| 63.378| 5074|
- | SC| August| 81.187| 3424|
- | SC| December| 51.899| 3654|
- | SC| February| 48.085| 4758|
- | SC| January| 46.855| 5106|
- | SC| July| 79.782| 3829|
- SC| June| 78.557| 5092|
- | SC| March| 55.774| 5185|
- | SC| May| 70.433| 5311|

- | SC| November| 53.487| 3433|
- | SC| October| 64.284| 3536|
- | SC|September| 74.331| 3370|
- | SD| April| 44.669| 4354|
- | SD| August| 71.513| 3182|
- | SD| December| 20.852| 3327|
- | SD| February| 20.626| 4050|
- | SD| January| 21.825| 4485|
- | SD| July| 75.471| 3618|
- | SD| June| 66.546| 4389|
- SD| March| 33.361| 4460|
- | SD| May| 57.324| 4520|
- | SD| November| 34.376| 3221|
- | SD| October| 47.231| 3253|
- | SD|September| 60.139| 3144|
- | TN| April| 59.52| 2294|
- | TN| August| 79.77| 1721|
- | TN| December| 43.313| 1762|
- | TN| February | 40.562 | 2126 |
- | TN| January| 39.973| 2336|
- | TN| July| 77.685| 1905|
- | TN| June| 76.09| 2310|
- TN| March| 52.496| 2348|
- | TN| May| 67.634| 2369|
- | TN| November| 47.773| 1709|
- | TN| October| 59.787| 1763|
- | TN|September| 71.049| 1704|
- | TX| April| 67.079| 31852|
- | TX| August| 82.851| 23809|
- TX| December| 50.791| 24562|
- | TX| February| 53.819| 29768|
- TX| January| 49.162| 32688|
- | TX| July| 82.003| 26342|
- TX| June| 81.338| 31697|
- | TX| March| 61.381| 32874|
- | TX| May| 74.603| 32858|
- | TX| November| 58.83| 23678|
- | TX| October| 68.199| 24209|
- | TX|September| 76.133| 23231|
- | UT| April| 49.962| 3796|
- | UT| August| 76.062| 2904|
- | UT| December| 26.906| 2927|
- | UT| February| 32.682| 3599|

- | UT| January| 25.372| 3951|
- | UT| July| 79.602| 3079|
- | UT| June| 70.759| 3715|
- UT| March| 41.372| 3966|
- | UT| May| 61.161| 3888|
- | UT| November| 40.62| 2859|
- UT| October| 50.43| 2948|
- | UT|September| 63.67| 2834|
- | VA| April| 57.221| 10859|
- | VA| August| 76.881| 8240|
- | VA| December| 43.869| 8485|
- | VA| February| 39.054| 10187|
- | VA| January| 39.635| 11190|
- | VA| July| 76.273| 8993|
- | VA| June| 73.762| 10750|
- | VA| March| 48.294| 11130|
- | VA| May| 64.61| 11244|
- | VA| November| 48.573| 8145|
- | VA| October| 59.399| 8390|
- | VA|September| 69.275| 8146|
- | VI| April| 77.585| 117|
- | VI| August| 83.271| 92|
- | VI| December | 78.701 | 93|
- | VI| February| 77.554| 112|
- | VI| January| 77.669| 124|
- VII July| 83.275| 101|
- | VI| June| 82.556| 120|
- | VI| March| 77.678| 124|
- | VI| May| 81.066| 122|
- | VI| November| 80.457| 89|
- | VI| October| 81.527| 92|
- | VI|September| 82.85| 90
- | VT| April| 45.315| 1428|
- | VT| August| 65.287| 1074|
- | VT| December| 27.245| 1049|
- | VT| February| 21.805| 1228|
- | VT| January| 21.598| 1363|
- | VT| July| 68.287| 1198|
- | VT| June| 63.982| 1469|
- | VT| March| 30.633| 1364|
- | VT| May| 54.701| 1550|
- | VT| November| 37.835| 1018|
- | VT| October| 47.811| 1052|

- | VT|September| 59.495| 1056|
- | WA| April| 47.5| 9099|
- | WA| August| 65.088| 6973|
- | WA| December| 35.22| 7021|
- | WA| February| 38.754| 8511|
- | WA| January| 35.824| 9271|
- | WA| July| 67.151| 7633|
- | WA| June| 60.729| 9150|
- | WA| March| 42.42| 9436|
- | WA| May| 55.404| 9462|
- | WA| November| 42.834| 6874|
- | WA| October| 49.601| 7113|
- | WA|September| 59.395| 6860|
- | WI| April| 44.953| 12883|
- | WI| August| 68.432| 9707|
- | WI| December | 22.078 | 10111 |
- | WI| February| 18.612| 11911|
- | WI| January| 19.93| 13128|
- | WI| July| 70.078| 10788|
- | WI| June| 65.243| 12855|
- | WI| March| 32.062| 13136|
- | WI| May| 56.042| 13352|
- | WI| November| 35.872| 9871|
- | WI| October| 48.837| 10098|
- | WI|September| 60.218| 9698|
- | WV| April| 53.777| 2848|
- | WV| August| 72.281| 2101|
- | WV| December| 38.801| 2180|
- | WV| February| 32.62| 2584|
- | WV| January| 34.608| 2878|
- | WV| July| 71.05| 2364|
- | WV| June| 68.913| 2825|
- | WV| March| 44.559| 2875|
- | WV| May| 60.731| 2935|
- | WV| November| 43.729| 2154|
- | WV| October| 54.534| 2204|
- | WV|September| 65.164| 2111|
- | WY| April| 41.333| 3844|
- | WY| August| 67.873| 2961|
- | WY| December| 20.959| 3041|
- | WY| February| 24.646| 3639|
- | WY| January| 21.343| 4019|
- | WY| July| 71.857| 3300|

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| WY| June| 61.534| 3931|
| WY| March| 32.853| 4052|
| WY| May| 52.109| 4074|
| WY| November| 34.509| 2956|
| WY| October| 43.651| 3044|
| WY|September| 55.144| 2956|
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MAXIMUM AVG TEMP FOR EACH STATE AND ITS MONTH

The MAXIMUM average temp for AZ was

78.65 during the month of August

The MAXIMUM average temp for SC was 81.187 during the month of August The MAXIMUM average temp for LA was 82.524 during the month of August The MAXIMUM average temp for MN was 71.154 during the month of July The MAXIMUM average temp for NJ was 75.293 during the month of July The MAXIMUM average temp for DC was 77.44 during the month of July The MAXIMUM average temp for OR was 67.969 during the month of July The MAXIMUM average temp for VA was 76.881 during the month of August The MAXIMUM average temp for RI was 73.009 during the month of July The MAXIMUM average temp for KY was 78.057 during the month of August The MAXIMUM average temp for WY was 71.857 during the month of July The MAXIMUM average temp for NH was 67.834 during the month of July The MAXIMUM average temp for MI was 68.786 during the month of July The MAXIMUM average temp for NV was 82.584 during the month of July The MAXIMUM average temp for WI was 70.078 during the month of July The MAXIMUM average temp for ID was 72.362 during the month of July The MAXIMUM average temp for CA was 72.594 during the month of July The MAXIMUM average temp for CT was 72.951 during the month of July The MAXIMUM average temp for NE was 76.31 during the month of July The MAXIMUM average temp for MT was 72.894 during the month of July The MAXIMUM average temp for NC was 78.958 during the month of August The MAXIMUM average temp for VT was 68.287 during the month of July The MAXIMUM average temp for MD was 76.508 during the month of July The MAXIMUM average temp for DE was 76.732 during the month of July The MAXIMUM average temp for MO was 78.257 during the month of August The MAXIMUM average temp for VI was 83.275 during the month of July The MAXIMUM average temp for IL was 74.755 during the month of August The MAXIMUM average temp for ME was 66.621 during the month of July The MAXIMUM average temp for ND was 72.138 during the month of July The MAXIMUM average temp for WA was 67.151 during the month of July The MAXIMUM average temp for MS was 81.985 during the month of August The MAXIMUM average temp for AL was 81.296 during the month of August The MAXIMUM average temp for IN was 74.108 during the month of August

The MAXIMUM average temp for OH was 73.076 during the month of August The MAXIMUM average temp for TN was 79.77 during the month of August The MAXIMUM average temp for IA was 74.585 during the month of July The MAXIMUM average temp for NM was 75.116 during the month of July The MAXIMUM average temp for PA was 72.616 during the month of July The MAXIMUM average temp for SD was 75.471 during the month of July The MAXIMUM average temp for NY was 71.263 during the month of July The MAXIMUM average temp for TX was 82.851 during the month of August The MAXIMUM average temp for WV was 72.281 during the month of August The MAXIMUM average temp for GA was 80.865 during the month of August The MAXIMUM average temp for MA was 71.517 during the month of July The MAXIMUM average temp for KS was 79.094 during the month of July The MAXIMUM average temp for CO was 68.828 during the month of July The MAXIMUM average temp for FL was 82.565 during the month of August The MAXIMUM average temp for AK was 54.521 during the month of July The MAXIMUM average temp for AR was 80.894 during the month of August The MAXIMUM average temp for OK was 82.251 during the month of August The MAXIMUM average temp for PR was 82.797 during the month of August The MAXIMUM average temp for UT was 79.602 during the month of July The MAXIMUM average temp for HI was 77.724 during the month of August

MINIMUM AVG TEMP FOR EACH STATE AND ITS MONTH

The MINIMUM average temp for AZ was

45.264 during the month of December

The MINIMUM average temp for SC was 46.855 during the month of January The MINIMUM average temp for LA was 52.453 during the month of January The MINIMUM average temp for MN was 14.836 during the month of February The MINIMUM average temp for NJ was 33.02 during the month of February The MINIMUM average temp for DC was 32.229 during the month of January The MINIMUM average temp for OR was 36.259 during the month of December The MINIMUM average temp for VA was 39.054 during the month of February The MINIMUM average temp for RI was 32.17 during the month of February The MINIMUM average temp for KY was 36.497 during the month of February The MINIMUM average temp for WY was 20.959 during the month of December The MINIMUM average temp for NH was 22.349 during the month of February The MINIMUM average temp for MI was 22.056 during the month of February The MINIMUM average temp for NV was 35.063 during the month of December The MINIMUM average temp for WI was 18.612 during the month of February The MINIMUM average temp for ID was 24.627 during the month of January The MINIMUM average temp for CA was 48.124 during the month of December The MINIMUM average temp for CT was 30.74 during the month of February The MINIMUM average temp for NE was 25.61 during the month of December

The MINIMUM average temp for MT was 22.695 during the month of December The MINIMUM average temp for NC was 44.159 during the month of January The MINIMUM average temp for VT was 21.598 during the month of January The MINIMUM average temp for MD was 35.986 during the month of February The MINIMUM average temp for DE was 36.278 during the month of February The MINIMUM average temp for MO was 33.221 during the month of January The MINIMUM average temp for VI was 77.554 during the month of February The MINIMUM average temp for IL was 28.769 during the month of February The MINIMUM average temp for ME was 20.766 during the month of January The MINIMUM average temp for ND was 13.656 during the month of February The MINIMUM average temp for WA was 35.22 during the month of December The MINIMUM average temp for MS was 48.125 during the month of January The MINIMUM average temp for AL was 47.651 during the month of January The MINIMUM average temp for IN was 28.338 during the month of February The MINIMUM average temp for OH was 27.948 during the month of February The MINIMUM average temp for TN was 39.973 during the month of January The MINIMUM average temp for IA was 23.356 during the month of February The MINIMUM average temp for NM was 35.723 during the month of January The MINIMUM average temp for PA was 29.135 during the month of February The MINIMUM average temp for SD was 20.626 during the month of February The MINIMUM average temp for NY was 26.885 during the month of February The MINIMUM average temp for TX was 49.162 during the month of January The MINIMUM average temp for WV was 32.62 during the month of February The MINIMUM average temp for GA was 48.221 during the month of January The MINIMUM average temp for MA was 29.058 during the month of February The MINIMUM average temp for KS was 32.741 during the month of December The MINIMUM average temp for CO was 23.18 during the month of January The MINIMUM average temp for FL was 61.379 during the month of January The MINIMUM average temp for AK was 17.851 during the month of March The MINIMUM average temp for AR was 40.526 during the month of January The MINIMUM average temp for OK was 40.092 during the month of January The MINIMUM average temp for PR was 76.692 during the month of January The MINIMUM average temp for UT was 25.372 during the month of January The MINIMUM average temp for HI was 69.768 during the month of February Execution time in seconds:

59.756956815719604