

MAP REDUCE IN WEATHER DATASET

TERMINAL:

hadoop@ubuntu:~\$ hadoop version

Hadoop 3.3.6

Source code repository <https://github.com/apache/hadoop.git> -r

1be78238728da9266a4f88195058f08fd012bf9c

Compiled by ubuntu on 2023-06-18T08:22Z

Compiled on platform linux-x86_64

Compiled with protoc 3.7.1

From source with checksum 5652179ad55f76cb287d9c633bb53bbd

This command was run using

/home/hadoop/hadoop/share/hadoop/common/hadoop-common-3.3.6.jar

hadoop@ubuntu:~\$ export HADOOP_CLASSPATH=\$(hadoop classpath)

hadoop@ubuntu:~\$ echo \$HADOOP_CLASSPATH

/home/hadoop/hadoop/etc/hadoop:/home/hadoop/hadoop/share/hadoop/common/lib/*:/home/hadoop/hadoop/share/hadoop/common/*:/home/hadoop/hadoop/share/hadoop/hdfs:/home/hadoop/hadoop/share/hadoop/hdfs/lib/*:/home/hadoop/hadoop/share/hadoop/hdfs/*:/home/hadoop/hadoop/share/hadoop/mapreduce/*:/home/hadoop/hadoop/share/hadoop/yarn:/home/hadoop/hadoop/share/hadoop/yarn/lib/*:/home/hadoop/hadoop/share/hadoop/yarn/*

hadoop@ubuntu:~\$ hadoop fs -mkdir /Weather

hadoop@ubuntu:~\$ hadoop fs -mkdir /Weather/Sample

hadoop@ubuntu:~\$ hadoop fs -put

'/home/hadoop/Documents/Weather/sample_data/weatherinput.txt'

/Weather/Sample

hadoop@ubuntu:~\$ cd home/hadoop/Documents/Weather

bash: cd: too many arguments

hadoop@ubuntu:~\$ cd home/hadoop/Documents/Weather bash: cd:

home/hadoop/Documents/Weather: No such file or directory

hadoop@ubuntu:~\$ cd home/hadoop/Documents/Weather/ bash: cd:

home/hadoop/Documents/Weather/: No such file or directory

hadoop@ubuntu:~\$ cd /home/hadoop/Documents/Weather

hadoop@ubuntu:~/Documents/Weather\$ javac -classpath

\$HADOOP_CLASSPATH -d

'/home/hadoop/Documents/Weather/tutorial_classes'

'/home/hadoop/Documents/Weather/weather program.java'

/home/hadoop/Documents/Weather/weather program.java:18: error: class MyMaxMin is public, should be declared in a file named MyMaxMin.java

public class MyMaxMin {

^

Note: /home/hadoop/Documents/Weather/weather program.java uses or overrides a deprecated API.

Note: Recompile with -Xlint:deprecation for details.

1 error

```
hadoop@ubuntu:~/Documents/Weather$ javac -classpath
```

```
$HADOOP_CLASSPATH -d
```

```
'/home/hadoop/Documents/Weather/tutorial_classes'
```

```
'/home/hadoop/Documents/Weather/WeatherProg.java'
```

```
/home/hadoop/Documents/Weather/WeatherProg.java:121: error: cannot find  
symbol
```

```
    job.setJarByClass(MyMaxMin.class); //Assigning the driver class name  
                        ^
```

```
symbol:   class MyMaxMin
```

```
location: class WeatherProg
```

Note: /home/hadoop/Documents/Weather/WeatherProg.java uses or overrides a deprecated API.

Note: Recompile with -Xlint:deprecation for details.

1 error

```
hadoop@ubuntu:~/Documents/Weather$ javac -classpath
```

```
$HADOOP_CLASSPATH -d
```

```
'/home/hadoop/Documents/Weather/tutorial_classes'
```

```
'/home/hadoop/Documents/Weather/MyMaxMin.java'
```

Note: /home/hadoop/Documents/Weather/MyMaxMin.java uses or overrides a deprecated API.

Note: Recompile with -Xlint:deprecation for details.

```
hadoop@ubuntu:~/Documents/Weather$ javac -classpath
```

```
$HADOOP_CLASSPATH -d
```

```
'/home/hadoop/Documents/Weather/tutorial_classes'
```

```
'/home/hadoop/Documents/Weather/MyMaxMin.java' -Xlint:unchecked
```

Note: /home/hadoop/Documents/Weather/MyMaxMin.java uses or overrides a deprecated API.

Note: Recompile with -Xlint:deprecation for details.

```
hadoop@ubuntu:~/Documents/Weather$ javac -classpath
```

```
$HADOOP_CLASSPATH -d
```

```
'/home/hadoop/Documents/Weather/tutorial_classes'
```

```
'/home/hadoop/Documents/Weather/MyMaxMin.java' -Xlint:unchecked
```

```
javac: invalid flag:
```

```
/home/hadoop/Documents/Weather/MyMaxMin.java-Xlint:unchecked
```

```
Usage: javac <options> <source files>
```

```
use -help for a list of possible options
```

```
hadoop@ubuntu:~/Documents/Weather$ javac -classpath
```

```
$HADOOP_CLASSPATH -d
```

```
'/home/hadoop/Documents/Weather/tutorial_classes'
```

```
'/home/hadoop/Documents/Weather/MyMaxMin.java' -Xlint:unchecked
```

Note: /home/hadoop/Documents/Weather/MyMaxMin.java uses or overrides a deprecated API.

Note: Recompile with -Xlint:deprecation for details.

```
hadoop@ubuntu:~/Documents/Weather$ jar -cvf secondTutorial.jar -C
tutorial_classes/ .
```

```
added manifest
```

```
adding: MyMaxMin$MaxTemperatureReducer.class(in = 1283) (out=
533)(deflated 58%)
```

```
adding: MyMaxMin$MaxTemperatureMapper.class(in = 2029) (out= 885)(deflated
56%)
```

```
adding: MyMaxMin.class(in = 1836) (out= 928)(deflated 49%)
```

```
hadoop@ubuntu:~/Documents/Weather$ hadoop jar
'/home/hadoop/Documents/Weather/secondTutorial.jar' MyMinMax
/Weather/Input Weather/Output
```

```
Exception in thread "main" java.lang.ClassNotFoundException: MyMinMax
    at java.net.URLClassLoader.findClass(URLClassLoader.java:387)
    at java.lang.ClassLoader.loadClass(ClassLoader.java:418)
    at java.lang.ClassLoader.loadClass(ClassLoader.java:351)
    at java.lang.Class.forName0(Native Method)
    at java.lang.Class.forName(Class.java:348)
    at org.apache.hadoop.util.RunJar.run(RunJar.java:321)
    at org.apache.hadoop.util.RunJar.main(RunJar.java:241)
```

```
hadoop@ubuntu:~/Documents/Weather$ hadoop jar
'/home/hadoop/Documents/Weather/secondTutorial.jar' MyMinMax
/Weather/Sample Weather/Output
```

```
2024-09-12 20:17:43,202 INFO impl.MetricsConfig: Loaded properties from
hadoop-metrics2.properties
```

```
2024-09-12 20:17:43,387 INFO impl.MetricsSystemImpl: Scheduled Metric
snapshot period at 10 second(s).
```

```
2024-09-12 20:17:43,387 INFO impl.MetricsSystemImpl: JobTracker metrics
system started
```

```
2024-09-12 20:17:43,459 WARN mapreduce.JobResourceUploader: Hadoop
command-line option parsing not performed. Implement the Tool interface and
execute your application with ToolRunner to remedy this.
```

```
2024-09-12 20:17:43,654 INFO input.FileInputFormat: Total input files to process
: 1
```

```
2024-09-12 20:17:43,694 INFO mapreduce.JobSubmitter: number of splits:1
```

```
2024-09-12 20:17:43,803 INFO mapreduce.JobSubmitter: Submitting tokens for
job: job_local1070794341_0001
```

```
2024-09-12 20:17:43,803 INFO mapreduce.JobSubmitter: Executing with tokens:
[]
```

```
2024-09-12 20:17:44,001 INFO mapreduce.Job: The url to track the job:
http://localhost:8080/
```

2024-09-12 20:17:44,002 INFO mapreduce.Job: Running job:
job_local1070794341_0001
2024-09-12 20:17:44,008 INFO mapred.LocalJobRunner: OutputCommitter set in
config null
2024-09-12 20:17:44,039 INFO output.PathOutputCommitterFactory: No output
committer factory defined, defaulting to FileOutputCommitterFactory
2024-09-12 20:17:44,041 INFO output.FileOutputCommitter: File Output
Committer Algorithm version is 2
2024-09-12 20:17:44,041 INFO output.FileOutputCommitter:
FileOutputCommitter skip cleanup _temporary folders under output directory:false,
ignore cleanup failures: false
2024-09-12 20:17:44,042 INFO mapred.LocalJobRunner: OutputCommitter is
org.apache.hadoop.mapreduce.lib.output.FileOutputCommitter
2024-09-12 20:17:44,125 INFO mapred.LocalJobRunner: Waiting for map tasks
2024-09-12 20:17:44,126 INFO mapred.LocalJobRunner: Starting task:
attempt_local1070794341_0001_m_000000_0
2024-09-12 20:17:44,167 INFO output.PathOutputCommitterFactory: No output
committer factory defined, defaulting to FileOutputCommitterFactory
2024-09-12 20:17:44,167 INFO output.FileOutputCommitter: File Output
Committer Algorithm version is 2
2024-09-12 20:17:44,167 INFO output.FileOutputCommitter:
FileOutputCommitter skip cleanup _temporary folders under output directory:false,
ignore cleanup failures: false
2024-09-12 20:17:44,225 INFO mapred.Task: Using
ResourceCalculatorProcessTree : []
2024-09-12 20:17:44,231 INFO mapred.MapTask: Processing split:
hdfs://localhost:9000/WeatherTutorial/Input/weatherinput.txt:0+79205
2024-09-12 20:17:44,626 INFO mapred.MapTask: (EQUATOR) 0 kvi
26214396(104857584)
2024-09-12 20:17:44,627 INFO mapred.MapTask: mapreduce.task.io.sort.mb: 100
2024-09-12 20:17:44,627 INFO mapred.MapTask: soft limit at 83886080
2024-09-12 20:17:44,627 INFO mapred.MapTask: bufstart = 0; bufvoid =
104857600
2024-09-12 20:17:44,627 INFO mapred.MapTask: kvstart = 26214396; length =
6553600
2024-09-12 20:17:44,640 INFO mapred.MapTask: Map output collector class =
org.apache.hadoop.mapred.MapTask\$MapOutputBuffer
2024-09-12 20:17:44,891 INFO mapred.LocalJobRunner:
2024-09-12 20:17:44,895 INFO mapred.MapTask: Starting flush of map output
2024-09-12 20:17:44,895 INFO mapred.MapTask: Spilling map output
2024-09-12 20:17:44,895 INFO mapred.MapTask: bufstart = 0; bufend = 8489;
bufvoid = 104857600
2024-09-12 20:17:44,895 INFO mapred.MapTask: kvstart =
26214396(104857584); kvend = 26212940(104851760); length = 1457/6553600

2024-09-12 20:17:44,931 INFO mapred.MapTask: Finished spill 0
2024-09-12 20:17:45,012 INFO mapred.Task:
Task:attempt_local1070794341_0001_m_000000_0 is done. And is in the process
of committing
2024-09-12 20:17:45,017 INFO mapreduce.Job: Job job_local1070794341_0001
running in uber mode : false
2024-09-12 20:17:45,019 INFO mapreduce.Job: map 0% reduce 0%
2024-09-12 20:17:45,023 INFO mapred.LocalJobRunner: map
2024-09-12 20:17:45,025 INFO mapred.Task: Task
'attempt_local1070794341_0001_m_000000_0' done.
2024-09-12 20:17:45,069 INFO mapred.Task: Final Counters for
attempt_local1070794341_0001_m_000000_0: Counters: 23
File System Counters
FILE: Number of bytes read=3314
FILE: Number of bytes written=654149
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=79205
HDFS: Number of bytes written=0
HDFS: Number of read operations=5
HDFS: Number of large read operations=0
HDFS: Number of write operations=2
HDFS: Number of bytes read erasure-coded=0
Map-Reduce Framework
Map input records=365
Map output records=365
Map output bytes=8489
Map output materialized bytes=9225
Input split bytes=125
Combine input records=0
Spilled Records=365
Failed Shuffles=0
Merged Map outputs=0
GC time elapsed (ms)=17
Total committed heap usage (bytes)=379060224
File Input Format Counters
Bytes Read=79205
2024-09-12 20:17:45,074 INFO mapred.LocalJobRunner: Finishing task:
attempt_local1070794341_0001_m_000000_0
2024-09-12 20:17:45,076 INFO mapred.LocalJobRunner: map task executor
complete.
2024-09-12 20:17:45,097 INFO mapred.LocalJobRunner: Waiting for reduce tasks

2024-09-12 20:17:45,100 INFO mapred.LocalJobRunner: Starting task:
attempt_local1070794341_0001_r_000000_0
2024-09-12 20:17:45,147 INFO output.PathOutputCommitterFactory: No output
committer factory defined, defaulting to FileOutputCommitterFactory
2024-09-12 20:17:45,147 INFO output.FileOutputCommitter: File Output
Committer Algorithm version is 2
2024-09-12 20:17:45,147 INFO output.FileOutputCommitter:
FileOutputCommitter skip cleanup _temporary folders under output directory:false,
ignore cleanup failures: false
2024-09-12 20:17:45,149 INFO mapred.Task: Using
ResourceCalculatorProcessTree : []
2024-09-12 20:17:45,158 INFO mapred.ReduceTask: Using
ShuffleConsumerPlugin:
org.apache.hadoop.mapreduce.task.reduce.Shuffle@38c3cf46
2024-09-12 20:17:45,171 WARN impl.MetricsSystemImpl: JobTracker metrics
system already initialized!
2024-09-12 20:17:45,239 INFO reduce.MergeManagerImpl: MergerManager:
memoryLimit=1265788544, maxSingleShuffleLimit=316447136,
mergeThreshold=835420480, ioSortFactor=10,
memToMemMergeOutputsThreshold=10
2024-09-12 20:17:45,253 INFO reduce.EventFetcher:
attempt_local1070794341_0001_r_000000_0 Thread started: EventFetcher for
fetching Map Completion Events
2024-09-12 20:17:45,343 INFO reduce.LocalFetcher: localfetcher#1 about to
shuffle output of map attempt_local1070794341_0001_m_000000_0 decomp:
9221 len: 9225 to MEMORY
2024-09-12 20:17:45,347 INFO reduce.InMemoryMapOutput: Read 9221 bytes
from map-output for attempt_local1070794341_0001_m_000000_0
2024-09-12 20:17:45,350 INFO reduce.MergeManagerImpl: closeInMemoryFile
-> map-output of size: 9221, inMemoryMapOutputs.size() -> 1, commitMemory ->
0, usedMemory ->9221
2024-09-12 20:17:45,360 INFO reduce.EventFetcher: EventFetcher is interrupted..
Returning
2024-09-12 20:17:45,361 INFO mapred.LocalJobRunner: 1 / 1 copied.
2024-09-12 20:17:45,361 INFO reduce.MergeManagerImpl: finalMerge called
with 1 in-memory map-outputs and 0 on-disk map-outputs
2024-09-12 20:17:45,396 INFO mapred.Merger: Merging 1 sorted segments
2024-09-12 20:17:45,396 INFO mapred.Merger: Down to the last merge-pass, with
1 segments left of total size: 9201 bytes
2024-09-12 20:17:45,409 INFO reduce.MergeManagerImpl: Merged 1 segments,
9221 bytes to disk to satisfy reduce memory limit
2024-09-12 20:17:45,409 INFO reduce.MergeManagerImpl: Merging 1 files, 9225
bytes from disk

2024-09-12 20:17:45,410 INFO reduce.MergeManagerImpl: Merging 0 segments, 0 bytes from memory into reduce
2024-09-12 20:17:45,410 INFO mapred.Merger: Merging 1 sorted segments
2024-09-12 20:17:45,413 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 9201 bytes
2024-09-12 20:17:45,421 INFO mapred.LocalJobRunner: 1 / 1 copied.
2024-09-12 20:17:45,504 INFO Configuration.deprecation: mapred.skip.on is deprecated. Instead, use mapreduce.job.skiprecords
2024-09-12 20:17:45,596 INFO mapred.Task:
Task:attempt_local1070794341_0001_r_000000_0 is done. And is in the process of committing
2024-09-12 20:17:45,600 INFO mapred.LocalJobRunner: 1 / 1 copied.
2024-09-12 20:17:45,600 INFO mapred.Task: Task
attempt_local1070794341_0001_r_000000_0 is allowed to commit now
2024-09-12 20:17:45,649 INFO output.FileOutputCommitter: Saved output of task 'attempt_local1070794341_0001_r_000000_0' to
hdfs://localhost:9000/user/hadoop/WeatherTutorial/Output
2024-09-12 20:17:45,652 INFO mapred.LocalJobRunner: reduce > reduce
2024-09-12 20:17:45,652 INFO mapred.Task: Task
'attempt_local1070794341_0001_r_000000_0' done.
2024-09-12 20:17:45,654 INFO mapred.Task: Final Counters for
attempt_local1070794341_0001_r_000000_0: Counters: 30
File System Counters
FILE: Number of bytes read=21796
FILE: Number of bytes written=663374
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=79205
HDFS: Number of bytes written=8489
HDFS: Number of read operations=10
HDFS: Number of large read operations=0
HDFS: Number of write operations=4
HDFS: Number of bytes read erasure-coded=0
Map-Reduce Framework
Combine input records=0
Combine output records=0
Reduce input groups=365
Reduce shuffle bytes=9225
Reduce input records=365
Reduce output records=365
Spilled Records=365
Shuffled Maps =1
Failed Shuffles=0

Merged Map outputs=1
GC time elapsed (ms)=0
Total committed heap usage (bytes)=379060224
Shuffle Errors
BAD_ID=0
CONNECTION=0
IO_ERROR=0
WRONG_LENGTH=0
WRONG_MAP=0
WRONG_REDUCE=0
File Output Format Counters
Bytes Written=8489
2024-09-12 20:17:45,654 INFO mapred.LocalJobRunner: Finishing task:
attempt_local1070794341_0001_r_000000_0
2024-09-12 20:17:45,655 INFO mapred.LocalJobRunner: reduce task executor
complete.
2024-09-12 20:17:46,028 INFO mapreduce.Job: map 100% reduce 100%
2024-09-12 20:17:46,029 INFO mapreduce.Job: Job job_local1070794341_0001
completed successfully
2024-09-12 20:17:46,037 INFO mapreduce.Job: Counters: 36
File System Counters
FILE: Number of bytes read=25110
FILE: Number of bytes written=1317523
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=158410
HDFS: Number of bytes written=8489
HDFS: Number of read operations=15
HDFS: Number of large read operations=0
HDFS: Number of write operations=6
HDFS: Number of bytes read erasure-coded=0
Map-Reduce Framework
Map input records=365
Map output records=365
Map output bytes=8489
Map output materialized bytes=9225
Input split bytes=125
Combine input records=0
Combine output records=0
Reduce input groups=365
Reduce shuffle bytes=9225
Reduce input records=365
Reduce output records=365

Spilled Records=730
Shuffled Maps =1
Failed Shuffles=0
Merged Map outputs=1
GC time elapsed (ms)=17
Total committed heap usage (bytes)=758120448
Shuffle Errors
BAD_ID=0
CONNECTION=0
IO_ERROR=0
WRONG_LENGTH=0
WRONG_MAP=0
WRONG_REDUCE=0
File Input Format Counters
Bytes Read=79205
File Output Format Counters
Bytes Written=8489

hadoop@ubuntu:~/Documents/WeatherExpt\$ hadoop dfs -cat
WeatherTutorial/Output/*

WARNING: Use of this script to execute dfs is deprecated.

WARNING: Attempting to execute replacement "hdfs dfs" instead.

Cold Day 20150101	-21.8
Cold Day 20150102	-24.9
Cold Day 20150103	-28.2
Cold Day 20150104	-28.9
Cold Day 20150105	-29.3
Cold Day 20150106	-26.3
Cold Day 20150107	-28.7
Cold Day 20150108	-24.1
Cold Day 20150109	-20.3
Cold Day 20150110	-25.8
Cold Day 20150111	-28.2
Cold Day 20150112	-29.1
Cold Day 20150113	-29.9
Cold Day 20150114	-29.0
Cold Day 20150115	-24.2
Cold Day 20150116	-24.6
Cold Day 20150117	-23.2
Cold Day 20150118	-23.0
Cold Day 20150119	-30.4
Cold Day 20150120	-24.7
Cold Day 20150121	-24.1
Cold Day 20150122	-27.5

Cold Day 20150123	-29.3
Cold Day 20150124	-30.3
Cold Day 20150125	-30.0
Cold Day 20150126	-30.7
Cold Day 20150127	-26.9
Cold Day 20150128	-36.2
Cold Day 20150129	-35.0
Cold Day 20150130	-24.2
Cold Day 20150131	-26.5
Cold Day 20150201	-22.1
Cold Day 20150202	-19.0
Cold Day 20150203	-31.1
Cold Day 20150204	-38.2
Cold Day 20150205	-37.0
Cold Day 20150206	-29.7
Cold Day 20150207	-27.9
Cold Day 20150208	-35.4
Cold Day 20150209	-36.8
Cold Day 20150210	-34.5
Cold Day 20150211	-34.1
Cold Day 20150212	-32.5
Cold Day 20150213	-34.0
Cold Day 20150214	-34.6
Cold Day 20150215	-32.8
Cold Day 20150216	-25.7
Cold Day 20150217	-22.1
Cold Day 20150218	-18.5
Cold Day 20150219	-19.2
Cold Day 20150220	-23.2
Cold Day 20150221	-19.3
Cold Day 20150222	-19.0
Cold Day 20150223	-20.0
Cold Day 20150224	-18.1
Cold Day 20150225	-15.6
Cold Day 20150226	-6.5
Cold Day 20150227	-16.3
Cold Day 20150228	-26.5
Cold Day 20150301	-28.5
Cold Day 20150302	-23.6
Cold Day 20150303	-16.4
Cold Day 20150304	-25.4
Cold Day 20150305	-26.9
Cold Day 20150306	-27.6
Cold Day 20150307	-25.0

Cold Day 20150308	-29.6
Cold Day 20150309	-31.5
Cold Day 20150310	-36.5
Cold Day 20150311	-38.6
Cold Day 20150312	-39.3
Cold Day 20150313	-39.3
Cold Day 20150314	-38.0
Cold Day 20150315	-32.7
Cold Day 20150316	-33.1
Cold Day 20150317	-23.7
Cold Day 20150318	-23.9
Cold Day 20150319	-24.2
Cold Day 20150320	-24.3
Cold Day 20150321	-20.2
Cold Day 20150322	-23.0
Cold Day 20150323	-27.0
Cold Day 20150324	-33.0
Cold Day 20150325	-27.4
Cold Day 20150326	-26.5
Cold Day 20150327	-25.0
Cold Day 20150328	-26.3
Cold Day 20150329	-25.0
Cold Day 20150330	-23.3
Cold Day 20150331	-19.3
Cold Day 20150401	-23.7
Cold Day 20150402	-26.1
Cold Day 20150403	-21.6
Cold Day 20150404	-23.7
Cold Day 20150405	-24.2
Cold Day 20150406	-20.1
Cold Day 20150407	-18.4
Cold Day 20150408	-16.4
Cold Day 20150409	-17.6
Cold Day 20150410	-20.0
Cold Day 20150411	-22.1
Cold Day 20150412	-23.1
Cold Day 20150413	-27.7
Cold Day 20150414	-26.1
Cold Day 20150415	-27.4
Cold Day 20150416	-24.2
Cold Day 20150417	-28.1
Cold Day 20150418	-25.0
Cold Day 20150419	-15.6
Cold Day 20150420	-11.8

Cold Day 20150421	-13.8
Cold Day 20150422	-8.4
Cold Day 20150423	-8.8
Cold Day 20150424	-12.4
Cold Day 20150425	-9.0
Cold Day 20150426	-8.6
Cold Day 20150427	-9.4
Cold Day 20150428	-9.5
Cold Day 20150429	-9.4
Cold Day 20150430	-13.7
Cold Day 20150501	-16.1
Cold Day 20150502	-8.6
Cold Day 20150503	-9.6
Cold Day 20150504	-8.6
Cold Day 20150505	-13.0
Cold Day 20150506	-12.3
Cold Day 20150507	-10.8
Cold Day 20150508	-9.6
Cold Day 20150509	-4.7
Cold Day 20150510	-6.1
Cold Day 20150511	-2.1
Cold Day 20150512	-3.8
Cold Day 20150513	-4.6
Cold Day 20150514	-6.7
Cold Day 20150515	-5.1
Cold Day 20150516	-2.9
Cold Day 20150517	-0.3
Cold Day 20150518	0.7
Cold Day 20150519	-1.4
Cold Day 20150520	-2.6
Cold Day 20150521	0.0
Cold Day 20150522	0.2
Cold Day 20150523	-0.4
Cold Day 20150524	-0.5
Cold Day 20150525	-0.3
Cold Day 20150526	-1.8
Cold Day 20150527	-2.4
Cold Day 20150528	-2.1
Cold Day 20150529	0.2
Cold Day 20150530	-2.3
Cold Day 20150531	-3.8
Cold Day 20150601	-4.0
Cold Day 20150602	-2.4
Cold Day 20150603	-3.2

Cold Day 20150604	-3.7
Cold Day 20150605	-3.3
Cold Day 20150606	-1.0
Cold Day 20150607	-1.7
Cold Day 20150608	1.0
Cold Day 20150609	0.6
Cold Day 20150610	-1.5
Cold Day 20150611	-2.9
Cold Day 20150612	-2.4
Cold Day 20150613	3.3
Cold Day 20150614	3.3
Cold Day 20150615	0.8
Cold Day 20150616	1.4
Cold Day 20150617	1.0
Cold Day 20150618	0.6
Cold Day 20150619	0.6
Cold Day 20150620	7.7
Cold Day 20150621	7.1
Cold Day 20150622	0.1
Cold Day 20150623	1.3
Cold Day 20150624	1.3
Cold Day 20150625	1.6
Cold Day 20150626	2.6
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Browse Directory

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Search:

<input type="checkbox"/>	Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name
<input type="checkbox"/>	drwxr-xr-x	hadoop	supergroup	0 B	Sep 21 08:31	0	0 B	Weather
<input type="checkbox"/>	drwxr-xr-x	hadoop	supergroup	0 B	Sep 20 22:54	0	0 B	WeatherProgram
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<input type="checkbox"/>	drwxr-xr-x	hadoop	supergroup	0 B	Sep 20 18:42	0	0 B	WorldCount
<input type="checkbox"/>	drwxr-xr-x	hadoop	supergroup	0 B	Sep 23 21:01	0	0 B	home
<input type="checkbox"/>	drwxrwxr-x	hadoop	supergroup	0 B	Sep 23 18:16	0	0 B	tmp
<input type="checkbox"/>	drwxr-xr-x	hadoop	supergroup	0 B	Sep 23 17:24	0	0 B	user

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