Title: Design a distributed application using MapReduce (Using Java) which processes a log file of a system.
List out the users who have logged for maximum period on the system. Use simple log file from the Internet
and process it using a pseudo distribution mode on Hadoop platform


```
Source code
package WordCount;
import java.io.IOException;
import java.util.StringTokenizer;

import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapreduce.Job;
import org.apache.hadoop.mapreduce.Mapper;
import org.apache.hadoop.mapreduce.Reducer;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;

public class WordCount {
        public static class TokenizerMapper
            extends Mapper<Object, Text, Text, IntWritable>{

                private final static IntWritable one = new IntWritable(1);
                private Text word = new Text();

                public void map(Object Key, Text value, Context context
                                        )throws IOException,InterruptedException {
                        StringTokenizer itr = new
StringTokenizer(value.toString());
                        while (itr.hasMoreTokens()) {
                                word.set(itr.nextToken());
                                context.write(word, one);
                        }
                }
        }
        public static class IntSumReducer
            extends Reducer<Text,IntWritable,Text,IntWritable> {
                private IntWritable result = new IntWritable();

                public void reduce(Text key, Iterable<IntWritable> values,
                                Context context) throws IOException,
InterruptedException {
                        int sum = 0;
                        for (IntWritable val : values) {
                                sum += val.get();
                        }
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                    result.set(sum);
                    context.write(key, result);
            }
      }
            public static void main (String[] args) throws Exception {
                    Configuration conf = new Configuration();
                    Job job = Job.getInstance(conf, "word count");
                    job.setJarByClass(WordCount.class);
                    job.setMapperClass(TokenizerMapper.class);
                    job.setCombinerClass(IntSumReducer.class);
                    job.setReducerClass(IntSumReducer.class);
                    job.setOutputKeyClass(Text.class);
                    job.setOutputValueClass(IntWritable.class);
                    FileInputFormat.addInputPath(job, new Path(args[0]));
                    FileOutputFormat.setOutputPath(job, new Path(args[1]));
                    System.exit(job.waitForCompletion(true) ? 0 : 1);
            }
      }
```

```
[cloudera@quickstart ~]$ pwd
/home/cloudera
[cloudera@quickstart ~]$ ls
cloudera-manager   eclipse                       lib         Videos
cm_api.py          enterprise-deployment.json    Music       WordCount.jar
Desktop            express-deployment.json       Pictures    workspace
Documents          f.txt                         Public
Downloads          kerberos                      Templates
[cloudera@quickstart ~]$ hadoop fs -put Desktop/Input
put: `Input/input.txt': File exists
put: `Input/input.txt~': File exists
[cloudera@quickstart ~]$ hadoop fs -put Desktop/Input/input.txt
[cloudera@quickstart ~]$ clear

[cloudera@quickstart ~]$ hadoop jar WordCount.jar WordCount.WordCount input.txt
dir2
24/03/05 17:27:51 INFO client.RMProxy: Connecting to ResourceManager at
/0.0.0.0:8032
24/03/05 17:27:51 WARN security.UserGroupInformation: PriviledgedActionException
as:cloudera (auth:SIMPLE)
cause:org.apache.hadoop.mapred.FileAlreadyExistsException: Output directory
hdfs://quickstart.cloudera:8020/user/cloudera/dir2 already exists
Exception in thread "main" org.apache.hadoop.mapred.FileAlreadyExistsException:
Output directory hdfs://quickstart.cloudera:8020/user/cloudera/dir2 already exists
        at
org.apache.hadoop.mapreduce.lib.output.FileOutputFormat.checkOutputSpecs(FileOutput
Format.java:146)
        at
org.apache.hadoop.mapreduce.JobSubmitter.checkSpecs(JobSubmitter.java:562)
        at
org.apache.hadoop.mapreduce.JobSubmitter.submitJobInternal(JobSubmitter.java:432)
```

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        at org.apache.hadoop.mapreduce.Job$10.run(Job.java:1306)
        at org.apache.hadoop.mapreduce.Job$10.run(Job.java:1303)
        at java.security.AccessController.doPrivileged(Native Method)
        at javax.security.auth.Subject.doAs(Subject.java:415)
        at
org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1671
)
        at org.apache.hadoop.mapreduce.Job.submit(Job.java:1303)
        at org.apache.hadoop.mapreduce.Job.waitForCompletion(Job.java:1324)
        at WordCount.WordCount.main(WordCount.java:56)
        at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
        at
sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
        at
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:4
3)
        at java.lang.reflect.Method.invoke(Method.java:606)
        at org.apache.hadoop.util.RunJar.run(RunJar.java:221)
        at org.apache.hadoop.util.RunJar.main(RunJar.java:136)
[cloudera@quickstart ~]$ hadoop jar WordCount.jar WordCount.WordCount Input.txt
dir2
24/03/05 17:28:44 INFO client.RMProxy: Connecting to ResourceManager at
/0.0.0.0:8032
24/03/05 17:28:44 WARN security.UserGroupInformation: PriviledgedActionException
as:cloudera (auth:SIMPLE)
cause:org.apache.hadoop.mapred.FileAlreadyExistsException: Output directory
hdfs://quickstart.cloudera:8020/user/cloudera/dir2 already exists
Exception in thread "main" org.apache.hadoop.mapred.FileAlreadyExistsException:
Output directory hdfs://quickstart.cloudera:8020/user/cloudera/dir2 already exists
        at
org.apache.hadoop.mapreduce.lib.output.FileOutputFormat.checkOutputSpecs(FileOutput
Format.java:146)
        at
org.apache.hadoop.mapreduce.JobSubmitter.checkSpecs(JobSubmitter.java:562)
        at
org.apache.hadoop.mapreduce.JobSubmitter.submitJobInternal(JobSubmitter.java:432)
        at org.apache.hadoop.mapreduce.Job$10.run(Job.java:1306)
        at org.apache.hadoop.mapreduce.Job$10.run(Job.java:1303)
        at java.security.AccessController.doPrivileged(Native Method)
        at javax.security.auth.Subject.doAs(Subject.java:415)
        at
org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1671
)
        at org.apache.hadoop.mapreduce.Job.submit(Job.java:1303)
        at org.apache.hadoop.mapreduce.Job.waitForCompletion(Job.java:1324)
        at WordCount.WordCount.main(WordCount.java:56)
        at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
        at
sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
        at
```

```
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:4
3)
        at java.lang.reflect.Method.invoke(Method.java:606)
        at org.apache.hadoop.util.RunJar.run(RunJar.java:221)
        at org.apache.hadoop.util.RunJar.main(RunJar.java:136)
[cloudera@quickstart ~]$ hadoop jar WordCount.jar WordCount.WordCount Input.txt
dir5
24/03/05 17:29:55 INFO client.RMProxy: Connecting to ResourceManager at
/0.0.0.0:8032
24/03/05 17:29:56 WARN mapreduce.JobSubmitter: Hadoop command-line option parsing
not performed. Implement the Tool interface and execute your application with
ToolRunner to remedy this.
24/03/05 17:29:56 INFO mapreduce.JobSubmitter: Cleaning up the staging area
/tmp/hadoop-yarn/staging/cloudera/.staging/job_1709299462945_0005
24/03/05 17:29:56 WARN security.UserGroupInformation: PriviledgedActionException
as:cloudera (auth:SIMPLE)
cause:org.apache.hadoop.mapreduce.lib.input.InvalidInputException: Input path does
not exist: hdfs://quickstart.cloudera:8020/user/cloudera/Input.txt
Exception in thread "main"
org.apache.hadoop.mapreduce.lib.input.InvalidInputException: Input path does not
exist: hdfs://quickstart.cloudera:8020/user/cloudera/Input.txt
        at
org.apache.hadoop.mapreduce.lib.input.FileInputFormat.singleThreadedListStatus(File
InputFormat.java:321)
        at
org.apache.hadoop.mapreduce.lib.input.FileInputFormat.listStatus(FileInputFormat.ja
va:264)
        at
org.apache.hadoop.mapreduce.lib.input.FileInputFormat.getSplits(FileInputFormat.jav
a:385)
        at
org.apache.hadoop.mapreduce.JobSubmitter.writeNewSplits(JobSubmitter.java:597)
        at
org.apache.hadoop.mapreduce.JobSubmitter.writeSplits(JobSubmitter.java:614)
        at
org.apache.hadoop.mapreduce.JobSubmitter.submitJobInternal(JobSubmitter.java:492)
        at org.apache.hadoop.mapreduce.Job$10.run(Job.java:1306)
        at org.apache.hadoop.mapreduce.Job$10.run(Job.java:1303)
        at java.security.AccessController.doPrivileged(Native Method)
        at javax.security.auth.Subject.doAs(Subject.java:415)
        at
org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1671
)
        at org.apache.hadoop.mapreduce.Job.submit(Job.java:1303)
        at org.apache.hadoop.mapreduce.Job.waitForCompletion(Job.java:1324)
        at WordCount.WordCount.main(WordCount.java:56)
        at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
        at
sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
        at
```

```
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:4
3)
        at java.lang.reflect.Method.invoke(Method.java:606)
        at org.apache.hadoop.util.RunJar.run(RunJar.java:221)
        at org.apache.hadoop.util.RunJar.main(RunJar.java:136)
[cloudera@quickstart ~]$ hadoop jar WordCount.jar WordCount.WordCount input.txt
dir7
24/03/05 17:30:16 INFO client.RMProxy: Connecting to ResourceManager at
/0.0.0.0:8032
24/03/05 17:30:16 WARN mapreduce.JobSubmitter: Hadoop command-line option parsing
not performed. Implement the Tool interface and execute your application with
ToolRunner to remedy this.
24/03/05 17:30:16 INFO input.FileInputFormat: Total input paths to process : 1
24/03/05 17:30:16 INFO mapreduce.JobSubmitter: number of splits:1
24/03/05 17:30:16 INFO mapreduce.JobSubmitter: Submitting tokens for job:
job_1709299462945_0006
24/03/05 17:30:16 INFO impl.YarnClientImpl: Submitted application
application_1709299462945_0006
24/03/05 17:30:17 INFO mapreduce.Job: The url to track the job:
http://quickstart.cloudera:8088/proxy/application_1709299462945_0006/
24/03/05 17:30:17 INFO mapreduce.Job: Running job: job_1709299462945_0006
24/03/05 17:30:23 INFO mapreduce.Job: Job job_1709299462945_0006 running in uber
mode : false
24/03/05 17:30:23 INFO mapreduce.Job:  map 0% reduce 0%
24/03/05 17:30:28 INFO mapreduce.Job:  map 100% reduce 0%
24/03/05 17:30:34 INFO mapreduce.Job:  map 100% reduce 100%
24/03/05 17:30:34 INFO mapreduce.Job: Job job_1709299462945_0006 completed
successfully
24/03/05 17:30:34 INFO mapreduce.Job: Counters: 49
        File System Counters
                FILE: Number of bytes read=59
                FILE: Number of bytes written=220805
                FILE: Number of read operations=0
                FILE: Number of large read operations=0
                FILE: Number of write operations=0
                HDFS: Number of bytes read=239
                HDFS: Number of bytes written=37
                HDFS: Number of read operations=6
                HDFS: Number of large read operations=0
                HDFS: Number of write operations=2
        Job Counters
                Launched map tasks=1
                Launched reduce tasks=1
                Data-local map tasks=1
                Total time spent by all maps in occupied slots (ms)=3813
                Total time spent by all reduces in occupied slots (ms)=3470
                Total time spent by all map tasks (ms)=3813
                Total time spent by all reduce tasks (ms)=3470
                Total vcore-seconds taken by all map tasks=3813
                Total vcore-seconds taken by all reduce tasks=3470
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                Total megabyte-seconds taken by all map tasks=3904512
                Total megabyte-seconds taken by all reduce tasks=3553280
        Map-Reduce Framework
                Map input records=18
                Map output records=17
                Map output bytes=185
                Map output materialized bytes=59
                Input split bytes=120
                Combine input records=17
                Combine output records=4
                Reduce input groups=4
                Reduce shuffle bytes=59
                Reduce input records=4
                Reduce output records=4
                Spilled Records=8
                Shuffled Maps =1
                Failed Shuffles=0
                Merged Map outputs=1
                GC time elapsed (ms)=82
                CPU time spent (ms)=770
                Physical memory (bytes) snapshot=327892992
                Virtual memory (bytes) snapshot=3007389696
                Total committed heap usage (bytes)=226365440
        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=119
        File Output Format Counters
                Bytes Written=37
[cloudera@quickstart ~]$ hadoop fs -cat dir2/part-r-00000

[14/Jan/2011:15:09:20    2
[14/Jan/2011:15:09:21    2
[14/Jan/2011:15:39:54    1
[14/Jan/2011:15:44:25    1
[14/Jan/2011:15:45:31    1
[14/Jan/2011:15:51:32    1
[14/Jan/2011:15:53:25    1
[14/Jan/2011:15:57:22    1
[14/Jan/2011:15:58:40    1
[14/Jan/2011:16:03:18    1
[14/Jan/2011:16:04:38    1
[14/Jan/2011:16:04:39    10
[14/Jan/2011:16:04:40    1
[14/Jan/2011:16:04:43    1
```

```
[14/Sep/2011:14:51:25    1
[14/Sep/2011:14:51:26    1
[14/Sep/2011:14:51:28    6
[14/Sep/2011:14:51:29    2
[14/Sep/2011:14:51:32    2
[14/Sep/2011:14:51:33    3
[14/Sep/2011:14:51:34    1
[15/Jul/2009:20:50:32    1
[15/Jul/2009:20:50:33    10
[15/Oct/2011:02:25:27    6
[15/Oct/2011:02:25:34    2
[15/Oct/2011:02:25:41    1
[15/Oct/2011:02:25:59    1
[15/Oct/2011:02:26:15    1
[15/Oct/2011:02:26:16    4
[15/Oct/2011:02:26:17    1
[15/Oct/2011:02:55:41    1
[15/Oct/2011:02:55:42    2
[15/Oct/2011:02:57:12    1
[15/Oct/2011:02:57:16    2
[15/Oct/2011:02:58:01    1
[15/Oct/2011:02:59:12    1
[15/Oct/2011:02:59:39    1
[15/Oct/2011:03:03:06    1
[15/Oct/2011:03:03:50    7
[16/Feb/2011:08:57:53    1
[16/Feb/2011:08:59:00    1
[16/Feb/2011:08:59:01    2
[16/Feb/2011:08:59:06    7
[16/Feb/2011:08:59:09    1
[16/Feb/2011:08:59:10    2
[16/Feb/2011:08:59:15    1
[16/Feb/2011:08:59:22    1
[16/Feb/2011:08:59:25    1
[16/Feb/2011:08:59:29    1
[16/Feb/2011:08:59:36    1
[16/Feb/2011:09:00:37    1
[16/Feb/2011:09:00:55    1
[16/Feb/2011:09:01:03    1
[16/Feb/2011:09:01:05    4
[16/Feb/2011:09:01:06    3
[16/Feb/2011:09:01:28    1
[16/Feb/2011:09:01:30    1
[16/Feb/2011:09:01:57    1
[16/Feb/2011:09:02:04    1
[16/Feb/2011:09:02:05    2
[16/Feb/2011:09:06:40    1
[16/Feb/2011:09:06:47    1
[16/Feb/2011:09:06:48    7
[16/Feb/2011:09:06:49    4
```

```
[16/Feb/2011:09:07:08    1
[16/Feb/2011:09:07:25    2
[16/Feb/2011:09:07:26    1
[16/Feb/2011:09:07:53    1
[16/Feb/2011:09:07:56    1
[16/Feb/2011:09:12:52    4
[16/Feb/2011:09:12:54    1
[16/Feb/2011:09:12:55    1
[16/Feb/2011:09:12:56    2
[16/Feb/2011:09:12:57    2
[16/Feb/2011:09:12:58    2
[16/Feb/2011:09:12:59    2
[16/Feb/2011:09:13:00    1
[16/Jul/2009:02:51:31    3
[16/Jul/2009:02:51:41    7
[16/Jul/2009:02:51:42    3
[16/Jul/2009:03:00:06    7
[16/Jul/2009:03:00:07    6
[16/Jul/2009:03:00:55    1
[16/Jul/2009:03:00:57    2
[16/Jul/2009:03:00:58    1
[16/Jul/2009:03:00:59    1
[16/Jul/2009:03:01:01    1
[16/Jul/2009:03:14:59    5
[16/Jul/2009:03:15:01    3
[16/Jul/2009:03:15:02    3
[16/Jul/2009:03:15:17    1
[16/Jul/2009:03:15:20    3
[16/Jul/2009:03:15:22    1
[16/Jul/2009:03:15:23    3
[16/Jul/2009:04:14:59    8
[16/Jul/2009:04:15:00    8
[16/Jul/2009:04:15:02    1
[16/May/2011:09:16:34    1
[16/May/2011:09:16:36    1
[16/May/2011:09:16:39    1
[16/May/2011:09:16:40    1
[16/May/2011:09:16:45    1
[16/May/2011:09:16:50    1
[16/May/2011:09:16:55    1
[16/May/2011:09:17:00    1
[16/May/2011:09:17:05    1
[16/May/2011:09:17:14    1
[16/May/2011:09:17:15    7
[16/May/2011:09:17:29    2
[16/May/2011:09:17:39    1
[16/May/2011:09:17:43    1
[16/May/2011:09:17:51    1
[16/May/2011:09:18:55    1
[16/May/2011:09:21:39    1
```

```
[16/May/2011:09:22:15    1
[16/May/2011:09:22:35    1
[16/May/2011:09:22:56    1
[16/May/2011:09:22:57    1
[16/May/2011:09:23:11    1
[16/May/2011:09:23:12    1
[16/May/2011:09:23:19    1
[16/May/2011:09:23:23    1
[16/May/2011:09:24:15    1
[16/May/2011:09:24:23    1
[16/May/2011:09:24:52    1
[16/May/2011:09:25:55    1
[16/May/2011:09:26:00    1
[16/May/2011:09:26:43    1
[16/May/2011:09:49:01    2
[16/May/2011:09:49:02    3
[16/May/2011:09:49:06    1
[16/May/2011:09:49:11    2
[16/May/2011:09:50:13    1
[16/May/2011:09:51:05    1
[16/May/2011:09:51:25    7
[16/May/2011:09:51:26    6
[16/May/2011:10:37:47    1
[16/May/2011:10:37:48    8
[16/May/2011:10:37:49    9
[18/Nov/2011:05:51:39    2
[18/Nov/2011:05:51:50    1
[18/Nov/2011:05:51:51    7
[18/Nov/2011:05:52:36    1
[18/Nov/2011:05:53:07    1
[18/Nov/2011:05:53:08    2
[18/Nov/2011:05:53:09    2
[18/Nov/2011:05:53:10    2
[18/Nov/2011:05:53:21    3
[18/Nov/2011:05:53:33    1
[18/Nov/2011:05:55:56    4
[18/Nov/2011:05:56:56    1
[18/Nov/2011:05:58:15    1
[18/Nov/2011:05:58:25    1
[18/Nov/2011:05:58:26    1
[18/Nov/2011:05:58:31    7
[18/Nov/2011:05:58:32    1
[19/Jul/2010:13:40:06    3
[19/Jul/2010:13:40:07    3
[19/Jul/2010:13:40:08    4
[19/Jul/2010:13:40:11    3
[19/Jul/2010:13:40:12    1
[19/Jul/2010:13:46:03    1
[19/Jul/2010:13:49:17    1
[19/Jul/2010:13:51:48    1
```

```
[19/Jul/2010:13:52:55    1
[19/Jul/2010:13:53:04    1
[19/Jul/2010:13:53:21    1
[19/Jul/2010:13:56:07    1
[19/Jul/2010:13:57:43    1
[19/Jul/2010:14:04:09    1
[19/Jul/2010:14:04:10    2
[19/Mar/2011:15:11:27    1
[19/Mar/2011:15:11:38    1
[19/Mar/2011:15:11:45    1
[19/Mar/2011:15:11:49    1
[19/Mar/2011:15:11:50    1
[19/Mar/2011:15:11:52    2
[19/Mar/2011:15:11:53    1
[19/Mar/2011:15:11:54    1
[19/Mar/2011:15:11:55    1
[19/Mar/2011:15:12:02    2
[19/Mar/2011:15:37:44    1
[19/Mar/2011:15:38:02    1
[19/Mar/2011:15:38:18    1
[19/Mar/2011:15:38:31    1
[19/Mar/2011:15:38:38    1
[19/Mar/2011:15:38:53    1
[19/Mar/2011:15:39:48    1
[19/Mar/2011:15:40:20    1
[19/Mar/2011:15:40:25    1
[19/Mar/2011:15:40:41    1
[19/Mar/2011:15:40:57    2
[19/Mar/2011:15:41:01    2
[19/Mar/2011:15:41:08    1
[19/Mar/2011:15:41:12    1
[19/Mar/2011:15:41:15    1
[22/Jun/2011:06:58:56    1
[22/Jun/2011:07:00:19    1
[22/Jun/2011:07:00:26    1
[22/Jun/2011:07:00:27    1
[22/Jun/2011:07:00:33    1
[22/Jun/2011:07:00:34    1
[22/Jun/2011:07:01:25    1
[22/Jun/2011:07:01:33    5
[22/Jun/2011:07:01:35    1
[22/Jun/2011:07:03:09    8
[22/Jun/2011:07:03:16    1
[22/Jun/2011:07:04:31    2
[22/Jun/2011:07:08:04    1
[22/Jun/2011:07:08:56    1
[22/Sep/2010:05:43:08    1
[22/Sep/2010:05:43:10    1
[22/Sep/2010:05:45:08    1
[22/Sep/2010:05:46:06    1
```

```
[22/Sep/2010:05:46:09    1
[22/Sep/2010:05:46:11    2
[22/Sep/2010:05:46:15    1
[22/Sep/2010:05:47:01    11
[22/Sep/2010:05:47:02    3
[22/Sep/2010:05:47:03    6
[22/Sep/2011:06:58:03    1
[22/Sep/2011:06:58:58    1
[22/Sep/2011:06:59:03    1
[22/Sep/2011:06:59:58    2
[22/Sep/2011:06:59:59    2
[22/Sep/2011:07:00:07    1
[22/Sep/2011:07:00:09    4
[22/Sep/2011:07:00:10    5
[22/Sep/2011:07:00:11    5
[23/Oct/2011:18:35:44    1
[23/Oct/2011:18:35:45    5
[23/Oct/2011:18:35:46    1
[23/Oct/2011:18:35:47    5
[23/Oct/2011:18:35:50    1
[23/Oct/2011:18:35:51    1
[23/Oct/2011:18:35:58    1
[23/Oct/2011:18:37:22    1
[23/Oct/2011:18:38:13    1
[23/Oct/2011:19:10:20    1
[23/Oct/2011:19:10:23    4
[23/Oct/2011:19:11:13    1
[23/Oct/2011:19:11:16    1
[23/Oct/2011:19:12:36    1
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