

DATSCIW261 ASSIGNMENT #2

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W261-3

DATSCIW261 Assignment #2

1/23/16

HW2.0 What is a race condition in the context of parallel computation? Give an example. What is MapReduce? How does it differ from Hadoop? Which programming paradigm is Hadoop based on? Explain and give a simple example in code and show the code running.

A race condition in parallel computation refers to the problem where two or more concurrent process threads share a common variable that they are operating on without synchronization, meaning there is no. These threads are in a "race" depending on processing speed to perform their respective operations on the variable, but because there is no order specified, the final value of the variable can be different depending on order. A simple example:

Thread A: $X = X + 1$ Thread B: $X = X + 1$

Case 1: A and B both read initial value of X and overwrite each other, resulting in $X = X + 1$ Case 2: A reads and writes, then B reads and writes, resulting in $X = X + 2$

MapReduce is a Design Pattern in parallel computing for processing and generating large data sets with a parallel, distributed algorithm on a cluster. It involves two simple operations - Map and Reduce - that are applied to all elements of a sequence for primarily embarrassingly parallel problems (problems that can be broken down into independent subtasks that require no communication or synchronization between the subtasks outside of a barrier or join at the end). The Map operation is sent to every node or processor, run on local data, and emits a key and value into temporary storage as a intermediary file. There is a shuffle step that sends all similar keys to the same node, and then the Reduce step applies a function to the shuffled keys, for example a count.

While Hadoop is based on the functional programming paradigm of MapReduce, it differs in that Hadoop is a broader framework that has become the primary open-source implementation for MapReduce. Hadoop includes a distributed file system (HDFS), Avro (a data serialization system with scripting languages), Hive (a data summarization and ad hoc querying tool) on top of a MapReduce implementation. HDFS was developed to provide a single namespace for the cluster, handle data replication for fault tolerance, and was designed specifically to provide an efficient infrastructure for MapReduce jobs.

Below is an example Hadoop MapReduce job performing a word count for a sample text. The map job emits a key, which is each word in the target text file, and a count for that word. The reduce job sums the total for each key:

```
In [1]: %%writefile mapper.py
#!/usr/bin/python
## mapper.py
## Author: Jing Xu
## Description: mapper code for HW2.0

import sys
import re

WORD_RE = re.compile(r"[\w']+") #Compile regex to easily parse complete words

# read input from STDIN (standard input)
for line in sys.stdin:
    # remove leading and trailing whitespace
    line = line.strip()
    # split the line into words
    words=re.findall(WORD_RE,line) #create list of words
    words=words.lower()
    # increase counters
    for word in words:
        # write the results to STDOUT (standard output);
        # what we output here will be the input for the
        # Reduce step, i.e. the input for reducer.py
        # tab-delimited; the trivial word count is 1
        print '%s\t%s' % (word, 1)
```

Overwriting mapper.py

```
In [2]: %%writefile reducer.py
#!/usr/bin/python
## reducer.py
## Author: Jing Xu
## Description: reducer code for HW2.0

from operator import itemgetter
import sys
import re

current_word = None
current_count = 0
word = None

# input comes from STDIN
for line in sys.stdin:
    # remove leading and trailing whitespace
    line = line.strip()
    # parse the input we got from mapper.py
    word, count = line.split('\t', 1)
    # convert count (currently a string) to int
    try:
        count = int(count)
    except ValueError:
        # count was not a number, so silently
        # ignore/discard this line
        continue
    # this IF-switch only works because Hadoop sorts map output
    # by key (here: word) before it is passed to the reducer
    if current_word == word:
        current_count += count
    else:
        if current_word:
            # write result to STDOUT
            print '%s\t%s' % (current_word, current_count)
            current_count = count
            current_word = word

# do not forget to output the last word if needed!
if current_word == word:
    print '%s\t%s' % (current_word, current_count)
```

Overwriting reducer.py

```
In [3]: %%writefile mapreduce.sh
## mapreduce.sh
## Author: Jing Xu
## Description: mapreduce bash script for HW2.0

wget http://www.gutenberg.org/cache/epub/20417/pg20417.txt # download
gutenberg text
wait

hdfs dfs -mkdir /user # create hdfs folder
wait
hdfs dfs -mkdir /user/jing # create hdfs folder
wait
hadoop fs -put pg20417.txt /user/jing # upload local file to hdfs folder
wait

# hadoop command to run streaming mapreduce job
hadoop jar /Users/JingXu/Documents/hadoop-2.6.3/share/hadoop/tools/lib/hadoop-streaming-2.6.3.jar \
-file mapper.py -mapper mapper.py \
-file reducer.py -reducer reducer.py \
-input /user/jing/* -output /user/jing/test-output1/
wait

hadoop fs -get /user/jing/test-output1/part-00000 part-00000
wait

cat part-00000 # print contents of the word count output file
wait

hdfs dfs -rmr /user/jing # remove hdfs folder
hdfs dfs -rmr /user # remove hdfs folder
rm part-00000 # delete results
rm pg20417.txt # delete gutenberg text
```

Overwriting mapreduce.sh

```
In [4]: # give correct permissions
!chmod a+x reducer.py
!chmod a+x mapper.py
!chmod a+x mapreduce.sh
```

```
In [5]: # run the mapreduce shell script to look at word count results  
        !./mapreduce.sh
```

```
--2016-01-26 06:08:53-- http://www.gutenberg.org/cache/epub/20417/pg20417.txt
Resolving www.gutenberg.org... 152.19.134.47
Connecting to www.gutenberg.org|152.19.134.47|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 674570 (659K) [text/plain]
Saving to: 'pg20417.txt'

100%[=====>] 674,570      787KB/s
in 0.8s

2016-01-26 06:08:55 (787 KB/s) - 'pg20417.txt' saved [674570/674570]

16/01/26 06:08:57 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:08:59 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:09:00 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:09:02 WARN streaming.StreamJob: -file option is deprecated, please use generic option -files instead.
16/01/26 06:09:02 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
packageJobJar: [mapper.py, reducer.py] [] /var/folders/zs/k144hqks281fbt0x68c_zj9m0000gp/T/streamjob8136466567464203578.jar tmpDir=null
16/01/26 06:09:03 INFO Configuration.deprecation: session.id is deprecated. Instead, use dfs.metrics.session-id
16/01/26 06:09:03 INFO jvm.JvmMetrics: Initializing JVM Metrics with processName=JobTracker, sessionId=
16/01/26 06:09:03 INFO jvm.JvmMetrics: Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
16/01/26 06:09:03 INFO mapred.FileInputFormat: Total input paths to process : 1
16/01/26 06:09:03 INFO mapreduce.JobSubmitter: number of splits:1
16/01/26 06:09:03 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_local1488430331_0001
16/01/26 06:09:03 INFO mapred.LocalDistributedCacheManager: Localized file:/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/mapper.py as file:/tmp/hadoop-JingXu/mapred/local/1453817343720/mapper.py
16/01/26 06:09:03 INFO mapred.LocalDistributedCacheManager: Localized file:/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/reducer.py as file:/tmp/hadoop-JingXu/mapred/local/1453817343721/reducer.py
16/01/26 06:09:03 INFO mapreduce.Job: The url to track the job: http://localhost:8080/
16/01/26 06:09:03 INFO mapred.LocalJobRunner: OutputCommitter set in config null
16/01/26 06:09:03 INFO mapreduce.Job: Running job: job_local148843
```

```
0331_0001
16/01/26 06:09:03 INFO mapred.LocalJobRunner: OutputCommitter is o
rg.apache.hadoop.mapred.FileOutputCommitter
16/01/26 06:09:03 INFO mapred.LocalJobRunner: Waiting for map task
s
16/01/26 06:09:03 INFO mapred.LocalJobRunner: Starting task: attem
pt_local1488430331_0001_m_000000_0
16/01/26 06:09:04 INFO util.ProcfsBasedProcessTree: ProcfsBasedPro
cessTree currently is supported only on Linux.
16/01/26 06:09:04 INFO mapred.Task: Using ResourceCalculatorProce
ssTree : null
16/01/26 06:09:04 INFO mapred.MapTask: Processing split: hdfs://lo
calhost:9000/user/jing/pg20417.txt:0+674570
16/01/26 06:09:04 INFO mapred.MapTask: numReduceTasks: 1
16/01/26 06:09:04 INFO mapred.MapTask: (EQUATOR) 0 kvi 26214396(10
4857584)
16/01/26 06:09:04 INFO mapred.MapTask: mapreduce.task.io.sort.mb:
100
16/01/26 06:09:04 INFO mapred.MapTask: soft limit at 83886080
16/01/26 06:09:04 INFO mapred.MapTask: bufstart = 0; bufvoid = 104
857600
16/01/26 06:09:04 INFO mapred.MapTask: kvstart = 26214396; length
= 6553600
16/01/26 06:09:04 INFO mapred.MapTask: Map output collector class
= org.apache.hadoop.mapred.MapTask$MapOutputBuffer
16/01/26 06:09:04 INFO streaming.PipeMapRed: PipeMapRed exec [/Use
rs/JingXu/Dropbox/DataScience/W261/w261/HW2/./mapper.py]
16/01/26 06:09:04 INFO Configuration.deprecation: mapred.task.id i
s deprecated. Instead, use mapreduce.task.attempt.id
16/01/26 06:09:04 INFO Configuration.deprecation: user.name is dep
recated. Instead, use mapreduce.job.user.name
16/01/26 06:09:04 INFO Configuration.deprecation: map.input.start
is deprecated. Instead, use mapreduce.map.input.start
16/01/26 06:09:04 INFO Configuration.deprecation: mapred.task.is.m
ap is deprecated. Instead, use mapreduce.task.ismap
16/01/26 06:09:04 INFO Configuration.deprecation: mapred.tip.id is
deprecated. Instead, use mapreduce.task.id
16/01/26 06:09:04 INFO Configuration.deprecation: mapred.skip.on i
s deprecated. Instead, use mapreduce.job.skiprecords
16/01/26 06:09:04 INFO Configuration.deprecation: mapred.task.part
ition is deprecated. Instead, use mapreduce.task.partition
16/01/26 06:09:04 INFO Configuration.deprecation: map.input.length
is deprecated. Instead, use mapreduce.map.input.length
16/01/26 06:09:04 INFO Configuration.deprecation: mapred.local.dir
is deprecated. Instead, use mapreduce.cluster.local.dir
16/01/26 06:09:04 INFO Configuration.deprecation: mapred.work.outp
ut.dir is deprecated. Instead, use mapreduce.task.output.dir
16/01/26 06:09:04 INFO Configuration.deprecation: map.input.file i
s deprecated. Instead, use mapreduce.map.input.file
16/01/26 06:09:04 INFO Configuration.deprecation: mapred.job.id is
deprecated. Instead, use mapreduce.job.id
16/01/26 06:09:04 INFO mapred.LineRecordReader: Found UTF-8 BOM an
d skipped it
16/01/26 06:09:04 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [re
```



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c/s] out:NA [rec/s]
16/01/26 06:09:04 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [r
ec/s] out:NA [rec/s]
16/01/26 06:09:04 INFO streaming.PipeMapRed: R/W/S=100/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:09:04 INFO streaming.PipeMapRed: R/W/S=1000/0/0 in:NA
[rec/s] out:NA [rec/s]
Traceback (most recent call last):
  File "/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/./mapper.p
y", line 17, in <module>
    words=words.lower()
AttributeError: 'list' object has no attribute 'lower'
16/01/26 06:09:04 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:09:04 INFO streaming.PipeMapRed: R/W/S=2788/0/0 in:NA
[rec/s] out:NA [rec/s]
minRecWrittenToEnableSkip_=9223372036854775807 HOST=null
USER=JingXu
HADOOP_USER=null
last tool output: |null|

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java.io.IOException: Broken pipe
    at java.io.FileOutputStream.writeBytes(Native Method)
    at java.io.FileOutputStream.write(FileOutputStream.java:34
5)
    at java.io.BufferedOutputStream.write(BufferedOutputStrea
m.java:122)
    at java.io.BufferedOutputStream.flushBuffer(BufferedOutput
Stream.java:82)
    at java.io.BufferedOutputStream.write(BufferedOutputStrea
m.java:126)
    at java.io.DataOutputStream.write(DataOutputStream.java:10
7)
    at org.apache.hadoop.streaming.io.TextInputWriter.writeUTF
8(TextInputWriter.java:72)
    at org.apache.hadoop.streaming.io.TextInputWriter.writeVal
ue(TextInputWriter.java:51)
    at org.apache.hadoop.streaming.PipeMapper.map(PipeMapper.j
ava:106)
    at org.apache.hadoop.mapred.MapRunner.run(MapRunner.java:5
4)
    at org.apache.hadoop.streaming.PipeMapRunner.run(PipeMapRu
nner.java:34)
    at org.apache.hadoop.mapred.MapTask.runOldMapper(MapTask.j
ava:450)
    at org.apache.hadoop.mapred.MapTask.run(MapTask.java:343)
    at org.apache.hadoop.mapred.LocalJobRunner$Job$MapTaskRunn
able.run(LocalJobRunner.java:243)
    at java.util.concurrent.Executors$RunnableAdapter.call(Exe
cutors.java:471)
    at java.util.concurrent.FutureTask.run(FutureTask.java:26
2)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(Threa
dPoolExecutor.java:1145)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(Thre

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adPoolExecutor.java:615)
    at java.lang.Thread.run(Thread.java:745)
16/01/26 06:09:04 WARN streaming.PipeMapRed: java.io.IOException:
Stream closed
16/01/26 06:09:04 INFO streaming.PipeMapRed: PipeMapRed failed!
java.lang.RuntimeException: PipeMapRed.waitOutputThreads(): subprocess
failed with code 1
    at org.apache.hadoop.streaming.PipeMapRed.waitOutputThreads(P
ipeMapRed.java:322)
    at org.apache.hadoop.streaming.PipeMapRed.mapRedFinished(P
ipeMapRed.java:535)
    at org.apache.hadoop.streaming.PipeMapper.map(PipeMapper.j
ava:120)
    at org.apache.hadoop.mapred.MapRunner.run(MapRunner.java:5
4)
    at org.apache.hadoop.streaming.PipeMapRunner.run(PipeMapRu
nner.java:34)
    at org.apache.hadoop.mapred.MapTask.runOldMapper(MapTask.j
ava:450)
    at org.apache.hadoop.mapred.MapTask.run(MapTask.java:343)
    at org.apache.hadoop.mapred.LocalJobRunner$Job$MapTaskRunn
able.run(LocalJobRunner.java:243)
    at java.util.concurrent.Executors$RunnableAdapter.call(Exe
cutors.java:471)
    at java.util.concurrent.FutureTask.run(FutureTask.java:26
2)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(Threa
dPoolExecutor.java:1145)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(Thre
adPoolExecutor.java:615)
    at java.lang.Thread.run(Thread.java:745)
16/01/26 06:09:04 WARN streaming.PipeMapRed: java.io.IOException:
Stream closed
16/01/26 06:09:04 INFO streaming.PipeMapRed: PipeMapRed failed!
java.lang.RuntimeException: PipeMapRed.waitOutputThreads(): subprocess
failed with code 1
    at org.apache.hadoop.streaming.PipeMapRed.waitOutputThreads(P
ipeMapRed.java:322)
    at org.apache.hadoop.streaming.PipeMapRed.mapRedFinished(P
ipeMapRed.java:535)
    at org.apache.hadoop.streaming.PipeMapper.close(PipeMappe
r.java:130)
    at org.apache.hadoop.mapred.MapRunner.run(MapRunner.java:6
1)
    at org.apache.hadoop.streaming.PipeMapRunner.run(PipeMapRu
nner.java:34)
    at org.apache.hadoop.mapred.MapTask.runOldMapper(MapTask.j
ava:450)
    at org.apache.hadoop.mapred.MapTask.run(MapTask.java:343)
    at org.apache.hadoop.mapred.LocalJobRunner$Job$MapTaskRunn
able.run(LocalJobRunner.java:243)
    at java.util.concurrent.Executors$RunnableAdapter.call(Exe
cutors.java:471)
    at java.util.concurrent.FutureTask.run(FutureTask.java:26
```

```

2)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1145)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:615)
    at java.lang.Thread.run(Thread.java:745)
16/01/26 06:09:04 INFO mapred.LocalJobRunner: map task executor complete.
16/01/26 06:09:04 WARN mapred.LocalJobRunner: job_local1488430331_0001
java.lang.Exception: java.lang.RuntimeException: PipeMapRed.waitOutputThreads(): subprocess failed with code 1
    at org.apache.hadoop.mapred.LocalJobRunner$Job.runTasks(LocalJobRunner.java:462)
    at org.apache.hadoop.mapred.LocalJobRunner$Job.run(LocalJobRunner.java:522)
Caused by: java.lang.RuntimeException: PipeMapRed.waitOutputThreads(): subprocess failed with code 1
    at org.apache.hadoop.streaming.PipeMapRed.waitOutputThreads(PipeMapRed.java:322)
    at org.apache.hadoop.streaming.PipeMapRed.mapRedFinished(PipeMapRed.java:535)
    at org.apache.hadoop.streaming.PipeMapper.close(PipeMapper.java:130)
    at org.apache.hadoop.mapred.MapRunner.run(MapRunner.java:61)
    at org.apache.hadoop.streaming.PipeMapRunner.run(PipeMapRunner.java:34)
    at org.apache.hadoop.mapred.MapTask.runOldMapper(MapTask.java:450)
    at org.apache.hadoop.mapred.MapTask.run(MapTask.java:343)
    at org.apache.hadoop.mapred.LocalJobRunner$Job$MapTaskRunnable.run(LocalJobRunner.java:243)
    at java.util.concurrent.Executors$RunnableAdapter.call(Executors.java:471)
    at java.util.concurrent.FutureTask.run(FutureTask.java:262)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1145)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:615)
    at java.lang.Thread.run(Thread.java:745)
16/01/26 06:09:04 INFO mapreduce.Job: Job job_local1488430331_0001 running in uber mode : false
16/01/26 06:09:04 INFO mapreduce.Job: map 0% reduce 0%
16/01/26 06:09:04 INFO mapreduce.Job: Job job_local1488430331_0001 failed with state FAILED due to: NA
16/01/26 06:09:04 INFO mapreduce.Job: Counters: 0
16/01/26 06:09:04 ERROR streaming.StreamJob: Job not successful! Streaming Command Failed!
16/01/26 06:09:05 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
get: `/user/jing/test-output1/part-00000': No such file or directory

```

```

ry
cat: part-00000: No such file or directory
rmr: DEPRECATED: Please use 'rm -r' instead.
16/01/26 06:09:07 WARN util.NativeCodeLoader: Unable to load nativ
e-hadoop library for your platform... using builtin-java classes w
here applicable
16/01/26 06:09:08 INFO fs.TrashPolicyDefault: Namenode trash confi
guration: Deletion interval = 0 minutes, Emptier interval = 0 minu
tes.
Deleted /user/jing
rmr: DEPRECATED: Please use 'rm -r' instead.
16/01/26 06:09:09 WARN util.NativeCodeLoader: Unable to load nativ
e-hadoop library for your platform... using builtin-java classes w
here applicable
16/01/26 06:09:09 INFO fs.TrashPolicyDefault: Namenode trash confi
guration: Deletion interval = 0 minutes, Emptier interval = 0 minu
tes.
Deleted /user
rm: part-00000: No such file or directory

```

HW2.1. Sort in Hadoop MapReduce

****Given as input:** Records of the form < integer, "NA" >, where integer is any integer, and "NA" is just the empty string. **Output:** sorted key value pairs of the form < integer, "NA" > in decreasing order; what happens if you have multiple reducers? Do you need additional steps? Explain.**

****Write code to generate N random records of the form < integer, "NA" >. Let N = 10,000. Write the python Hadoop streaming map-reduce job to perform this sort. Display the top 10 biggest numbers. Display the 10 smallest numbers****

```

In [6]: # Record generator script
from random import randint

i = 0 # count
N = 10000 # total random records
f = open('hw2-1','w') # open file to write
while i < N:
    num = randint(0,9999) # generate random integer between 0 - 100
    00
    f.write('%s, "NA"\n'%num) # write integer key and "NA" value to
    file
    i+=1
f.close() # close file

```

```
In [7]: %%writefile mapper.py
#!/usr/bin/python
## mapper.py
## Author: Jing Xu
## Description: mapper code for HW2.1

import sys
import re

# input comes from STDIN (standard input)
for line in sys.stdin:
    line = line.strip()
    print line
```

Overwriting mapper.py

```
In [8]: %%writefile reducer.py
#!/usr/bin/python
## reducer.py
## Author: Jing Xu
## Description: reducer code for HW2.1

from operator import itemgetter
import sys

current_word = None
current_count = 0
word = None

# input comes from STDIN
for line in sys.stdin:
    line = line.strip('\n')
    print line
```

Overwriting reducer.py

```
In [9]: %%writefile mapreduce.sh
## mapreduce.sh
## Author: Jing Xu
## Description: mapreduce bash script for HW2.1

# Upload file to hdfs
hdfs dfs -mkdir /user #create hdfs folder
wait
hdfs dfs -mkdir /user/jing #create hdfs folder
wait
hadoop fs -put hw2-1 /user/jing #upload local file to hdfs folder
wait

hadoop command to run streaming mapreduce job
hadoop jar /Users/JingXu/Documents/hadoop-2.6.3/share/hadoop/tools/lib/hadoop-streaming-2.6.3.jar \
-D mapred.output.key.comparator.class=org.apache.hadoop.mapred.lib.KeyFieldBasedComparator \
-D mapred.text.key.comparator.options=-n \
-D mapred.reduce.tasks=10 \
-file mapper.py -mapper mapper.py \
-file reducer.py -reducer reducer.py \
-input /user/jing/* -output /user/jing/test-output1/

#hadoop jar /Users/JingXu/Documents/hadoop-2.6.3/share/hadoop/tools/lib/hadoop-streaming-2.6.3.jar \
# -D mapred.reduce.tasks=0 \
# -file mapper.py -mapper mapper.py \
# -input /user/jing/hw2-1 \
# -output /user/jing/test-output1

wait

hadoop fs -get /user/jing/test-output1/part-00000 part-00000
hadoop fs -get /user/jing/test-output1/part-00009 part-00009
wait

tail -n 10 part-00009 #read first 10 lines of first reducer for the
smallest numbers
head -n 10 part-00000 #read first 10 lines of first reducer for the
smallest numbers
wait

hdfs dfs -rmr /user/jing #remove hdfs folder
hdfs dfs -rmr /user #remove hdfs folder
rm part-00000 #delete results
rm part-00009 #delete results

Overwriting mapreduce.sh
```

```
In [10]: # run the mapreduce shell script to look at word count results  
         !./mapreduce.sh
```

```
16/01/26 06:09:17 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:09:19 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:09:20 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Error: Could not find or load main class command
16/01/26 06:09:22 WARN streaming.StreamJob: -file option is deprecated, please use generic option -files instead.
16/01/26 06:09:22 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
packageJobJar: [mapper.py, reducer.py] [] /var/folders/zs/k144hqks281fbt0x68c_zj9m0000gp/T/streamjob8115228427686758847.jar tmpDir=null
16/01/26 06:09:23 INFO Configuration.deprecation: session.id is deprecated. Instead, use dfs.metrics.session-id
16/01/26 06:09:23 INFO jvm.JvmMetrics: Initializing JVM Metrics with processName=JobTracker, sessionId=
16/01/26 06:09:23 INFO jvm.JvmMetrics: Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
16/01/26 06:09:23 INFO mapred.FileInputFormat: Total input paths to process : 1
16/01/26 06:09:23 INFO mapreduce.JobSubmitter: number of splits:1
16/01/26 06:09:23 INFO Configuration.deprecation: mapred.reduce.tasks is deprecated. Instead, use mapreduce.job.reduces
16/01/26 06:09:23 INFO Configuration.deprecation: mapred.output.key.comparator.class is deprecated. Instead, use mapreduce.job.output.key.comparator.class
16/01/26 06:09:23 INFO Configuration.deprecation: mapred.text.key.comparator.options is deprecated. Instead, use mapreduce.partition.keycomparator.options
16/01/26 06:09:23 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_local2033775725_0001
16/01/26 06:09:24 INFO mapred.LocalDistributedCacheManager: Localized file:/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/mapper.py as file:/tmp/hadoop-JingXu/mapred/local/1453817364038/mapper.py
16/01/26 06:09:24 INFO mapred.LocalDistributedCacheManager: Localized file:/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/reducer.py as file:/tmp/hadoop-JingXu/mapred/local/1453817364039/reducer.py
16/01/26 06:09:24 INFO mapreduce.Job: The url to track the job: http://localhost:8080/
16/01/26 06:09:24 INFO mapred.LocalJobRunner: OutputCommitter set in config null
16/01/26 06:09:24 INFO mapreduce.Job: Running job: job_local2033775725_0001
16/01/26 06:09:24 INFO mapred.LocalJobRunner: OutputCommitter is org.apache.hadoop.mapred.FileOutputCommitter
16/01/26 06:09:24 INFO mapred.LocalJobRunner: Waiting for map tasks
```



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16/01/26 06:09:24 INFO mapred.LocalJobRunner: Starting task: attempt_local2033775725_0001_m_000000_0
16/01/26 06:09:24 INFO util.ProcfsBasedProcessTree: ProcfsBasedProcessTree currently is supported only on Linux.
16/01/26 06:09:24 INFO mapred.Task: Using ResourceCalculatorProcessTree : null
16/01/26 06:09:24 INFO mapred.MapTask: Processing split: hdfs://localhost:9000/user/jing/hw2-1:0+108902
16/01/26 06:09:24 INFO mapred.MapTask: numReduceTasks: 10
16/01/26 06:09:24 INFO mapred.MapTask: (EQUATOR) 0 kvi 26214396(104857584)
16/01/26 06:09:24 INFO mapred.MapTask: mapreduce.task.io.sort.mb: 100
16/01/26 06:09:24 INFO mapred.MapTask: soft limit at 83886080
16/01/26 06:09:24 INFO mapred.MapTask: bufstart = 0; bufvoid = 104857600
16/01/26 06:09:24 INFO mapred.MapTask: kvstart = 26214396; length = 6553600
16/01/26 06:09:24 INFO mapred.MapTask: Map output collector class = org.apache.hadoop.mapred.MapTask$MapOutputBuffer
16/01/26 06:09:24 INFO streaming.PipeMapRed: PipeMapRed exec [/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/./mapper.py]
16/01/26 06:09:24 INFO Configuration.deprecation: mapred.task.id is deprecated. Instead, use mapreduce.task.attempt.id
16/01/26 06:09:24 INFO Configuration.deprecation: user.name is deprecated. Instead, use mapreduce.job.user.name
16/01/26 06:09:24 INFO Configuration.deprecation: map.input.start is deprecated. Instead, use mapreduce.map.input.start
16/01/26 06:09:24 INFO Configuration.deprecation: mapred.task.ismap is deprecated. Instead, use mapreduce.task.ismap
16/01/26 06:09:24 INFO Configuration.deprecation: mapred.tip.id is deprecated. Instead, use mapreduce.task.id
16/01/26 06:09:24 INFO Configuration.deprecation: mapred.skip.on is deprecated. Instead, use mapreduce.job.skiprecords
16/01/26 06:09:24 INFO Configuration.deprecation: mapred.task.partition is deprecated. Instead, use mapreduce.task.partition
16/01/26 06:09:24 INFO Configuration.deprecation: map.input.length is deprecated. Instead, use mapreduce.map.input.length
16/01/26 06:09:24 INFO Configuration.deprecation: mapred.local.dir is deprecated. Instead, use mapreduce.cluster.local.dir
16/01/26 06:09:24 INFO Configuration.deprecation: mapred.work.output.dir is deprecated. Instead, use mapreduce.task.output.dir
16/01/26 06:09:24 INFO Configuration.deprecation: map.input.file is deprecated. Instead, use mapreduce.map.input.file
16/01/26 06:09:24 INFO Configuration.deprecation: mapred.job.id is deprecated. Instead, use mapreduce.job.id
16/01/26 06:09:24 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:24 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:24 INFO streaming.PipeMapRed: R/W/S=100/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:24 INFO streaming.PipeMapRed: R/W/S=1000/0/0 in:NA [rec/s] out:NA [rec/s]
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16/01/26 06:09:24 INFO streaming.PipeMapRed: R/W/S=10000/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:09:24 INFO streaming.PipeMapRed: Records R/W=10000/1
16/01/26 06:09:24 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:09:24 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:09:24 INFO mapred.LocalJobRunner:
16/01/26 06:09:24 INFO mapred.MapTask: Starting flush of map output
16/01/26 06:09:24 INFO mapred.MapTask: Spilling map output
16/01/26 06:09:24 INFO mapred.MapTask: bufstart = 0; bufend = 1189
02; bufvoid = 104857600
16/01/26 06:09:24 INFO mapred.MapTask: kvstart = 26214396(10485758
4); kvend = 26174400(104697600); length = 39997/6553600
16/01/26 06:09:24 INFO mapred.MapTask: Finished spill 0
16/01/26 06:09:24 INFO mapred.Task: Task:attempt_local2033775725_0
001_m_000000_0 is done. And is in the process of committing
16/01/26 06:09:24 INFO mapred.LocalJobRunner: Records R/W=10000/1
16/01/26 06:09:24 INFO mapred.Task: Task 'attempt_local203377572
5_0001_m_000000_0' done.
16/01/26 06:09:24 INFO mapred.LocalJobRunner: Finishing task: atte
mpt_local2033775725_0001_m_000000_0
16/01/26 06:09:24 INFO mapred.LocalJobRunner: map task executor co
mplete.
16/01/26 06:09:24 INFO mapred.LocalJobRunner: Waiting for reduce t
asks
16/01/26 06:09:24 INFO mapred.LocalJobRunner: Starting task: attem
pt_local2033775725_0001_r_000000_0
16/01/26 06:09:24 INFO util.ProcfsBasedProcessTree: ProcfsBasedPro
cessTree currently is supported only on Linux.
16/01/26 06:09:24 INFO mapred.Task: Using ResourceCalculatorProce
ssTree : null
16/01/26 06:09:24 INFO mapred.ReduceTask: Using ShuffleConsumerPlu
gin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@621dd45b
16/01/26 06:09:24 INFO reduce.MergeManagerImpl: MergerManager: mem
oryLimit=333971456, maxSingleShuffleLimit=83492864, mergeThreshol
d=220421168, ioSortFactor=10, memToMemMergeOutputsThreshold=10
16/01/26 06:09:24 INFO reduce.EventFetcher: attempt_local203377572
5_0001_r_000000_0 Thread started: EventFetcher for fetching Map Co
mpletion Events
16/01/26 06:09:24 INFO reduce.LocalFetcher: localfetcher#1 about t
o shuffle output of map attempt_local2033775725_0001_m_000000_0 de
comp: 13372 len: 13376 to MEMORY
16/01/26 06:09:24 INFO reduce.InMemoryMapOutput: Read 13372 bytes
from map-output for attempt_local2033775725_0001_m_000000_0
16/01/26 06:09:24 INFO reduce.MergeManagerImpl: closeInMemoryFile
-> map-output of size: 13372, inMemoryMapOutputs.size() -> 1, comm
itMemory -> 0, usedMemory ->13372
16/01/26 06:09:24 INFO reduce.EventFetcher: EventFetcher is interr
upted.. Returning
16/01/26 06:09:24 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:24 INFO reduce.MergeManagerImpl: finalMerge called
with 1 in-memory map-outputs and 0 on-disk map-outputs
16/01/26 06:09:24 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:24 INFO mapred.Merger: Down to the last merge-pass,
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with 1 segments left of total size: 13361 bytes
16/01/26 06:09:24 INFO reduce.MergeManagerImpl: Merged 1 segments, 13372 bytes to disk to satisfy reduce memory limit
16/01/26 06:09:24 INFO reduce.MergeManagerImpl: Merging 1 files, 13376 bytes from disk
16/01/26 06:09:24 INFO reduce.MergeManagerImpl: Merging 0 segments, 0 bytes from memory into reduce
16/01/26 06:09:24 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:24 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 13361 bytes
16/01/26 06:09:24 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:24 INFO streaming.PipeMapRed: PipeMapRed exec [/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/./reducer.py]
16/01/26 06:09:24 INFO Configuration.deprecation: mapred.job.tracker is deprecated. Instead, use mapreduce.jobtracker.address
16/01/26 06:09:24 INFO Configuration.deprecation: mapred.map.tasks is deprecated. Instead, use mapreduce.job.maps
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=100/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:09:25 INFO streaming.PipeMapRed: Records R/W=963/1
16/01/26 06:09:25 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:09:25 INFO mapred.Task: Task:attempt_local2033775725_0001_r_000000_0 is done. And is in the process of committing
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO mapred.Task: Task attempt_local2033775725_0001_r_000000_0 is allowed to commit now
16/01/26 06:09:25 INFO output.FileOutputCommitter: Saved output of task 'attempt_local2033775725_0001_r_000000_0' to hdfs://localhost:9000/user/jing/test-output1/_temporary/0/task_local2033775725_0001_r_000000
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Records R/W=963/1 > reduce
16/01/26 06:09:25 INFO mapred.Task: Task 'attempt_local2033775725_0001_r_000000_0' done.
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Finishing task: attempt_local2033775725_0001_r_000000_0
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Starting task: attempt_local2033775725_0001_r_000001_0
16/01/26 06:09:25 INFO util.ProcfsBasedProcessTree: ProcfsBasedProcessTree currently is supported only on Linux.
16/01/26 06:09:25 INFO mapred.Task: Using ResourceCalculatorProcessTree : null
16/01/26 06:09:25 INFO mapred.ReduceTask: Using ShuffleConsumerPlugin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@1c692098
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: MergerManager: memoryLimit=333971456, maxSingleShuffleLimit=83492864, mergeThreshold=220421168, ioSortFactor=10, memToMemMergeOutputsThreshold=10
16/01/26 06:09:25 INFO reduce.EventFetcher: attempt_local2033775725_0001_r_000001_0 Thread started: EventFetcher for fetching Map Co

mpletion Events

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16/01/26 06:09:25 INFO reduce.LocalFetcher: localfetcher#2 about to shuffle output of map attempt_local2033775725_0001_m_000000_0 decomp: 13801 len: 13805 to MEMORY
16/01/26 06:09:25 INFO reduce.InMemoryMapOutput: Read 13801 bytes from map-output for attempt_local2033775725_0001_m_000000_0
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: closeInMemoryFile -> map-output of size: 13801, inMemoryMapOutputs.size() -> 1, commitMemory -> 0, usedMemory -> 13801
16/01/26 06:09:25 INFO reduce.EventFetcher: EventFetcher is interrupted.. Returning
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: finalMerge called with 1 in-memory map-outputs and 0 on-disk map-outputs
16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 13791 bytes
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merged 1 segments, 13801 bytes to disk to satisfy reduce memory limit
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 1 files, 13805 bytes from disk
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 0 segments, 0 bytes from memory into reduce
16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 13791 bytes
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO streaming.PipeMapRed: PipeMapRed exec [/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/./reducer.py]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=100/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: Records R/W=993/1
16/01/26 06:09:25 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:09:25 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:09:25 INFO mapred.Task: Task:attempt_local2033775725_0001_r_000001_0 is done. And is in the process of committing
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO mapred.Task: Task attempt_local2033775725_0001_r_000001_0 is allowed to commit now
16/01/26 06:09:25 INFO output.FileOutputCommitter: Saved output of task 'attempt_local2033775725_0001_r_000001_0' to hdfs://localhost:9000/user/jing/test-output1/_temporary/0/task_local2033775725_0001_r_000001
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Records R/W=993/1 > reduce
16/01/26 06:09:25 INFO mapred.Task: Task 'attempt_local2033775725_0001_r_000001_0' done.
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Finishing task: attempt_local2033775725_0001_r_000001_0
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Starting task: attempt
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pt_local2033775725_0001_r_000002_0
16/01/26 06:09:25 INFO util.ProcfsBasedProcessTree: ProcfsBasedPro
cessTree currently is supported only on Linux.
16/01/26 06:09:25 INFO mapred.Task: Using ResourceCalculatorProce
ssTree : null
16/01/26 06:09:25 INFO mapred.ReduceTask: Using ShuffleConsumerPlu
gin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@58a470a8
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: MergeManager: mem
oryLimit=333971456, maxSingleShuffleLimit=83492864, mergeThreshol
d=220421168, ioSortFactor=10, memToMemMergeOutputsThreshold=10
16/01/26 06:09:25 INFO reduce.EventFetcher: attempt_local203377572
5_0001_r_000002_0 Thread started: EventFetcher for fetching Map Co
mpletion Events
16/01/26 06:09:25 INFO reduce.LocalFetcher: localfetcher#3 about t
o shuffle output of map attempt_local2033775725_0001_m_000000_0 de
comp: 14179 len: 14183 to MEMORY
16/01/26 06:09:25 INFO reduce.InMemoryMapOutput: Read 14179 bytes
from map-output for attempt_local2033775725_0001_m_000000_0
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: closeInMemoryFile
-> map-output of size: 14179, inMemoryMapOutputs.size() -> 1, comm
itMemory -> 0, usedMemory ->14179
16/01/26 06:09:25 INFO reduce.EventFetcher: EventFetcher is interr
upted.. Returning
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: finalMerge called
with 1 in-memory map-outputs and 0 on-disk map-outputs
16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 14169 bytes
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merged 1 segments,
14179 bytes to disk to satisfy reduce memory limit
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 1 files, 1
4183 bytes from disk
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 0 segment
s, 0 bytes from memory into reduce
16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 14169 bytes
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO mapreduce.Job: Job job_local2033775725_0001
running in uber mode : false
16/01/26 06:09:25 INFO mapreduce.Job: map 100% reduce 20%
16/01/26 06:09:25 INFO streaming.PipeMapRed: PipeMapRed exec [/Use
rs/JingXu/Dropbox/DataScience/W261/w261/HW2/./reducer.py]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [re
c/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [r
ec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=100/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=1000/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: Records R/W=1021/1
16/01/26 06:09:25 INFO streaming.PipeMapRed: MRErrorThread done
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16/01/26 06:09:25 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:09:25 INFO mapred.Task: Task:attempt_local2033775725_0
001_r_000002_0 is done. And is in the process of committing
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO mapred.Task: Task attempt_local2033775725_0
001_r_000002_0 is allowed to commit now
16/01/26 06:09:25 INFO output.FileOutputCommitter: Saved output of
task 'attempt_local2033775725_0001_r_000002_0' to hdfs://localhos
t:9000/user/jing/test-output1/_temporary/0/task_local2033775725_00
01_r_000002
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Records R/W=1021/1 >
reduce
16/01/26 06:09:25 INFO mapred.Task: Task 'attempt_local203377572
5_0001_r_000002_0' done.
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Finishing task: atte
mpt_local2033775725_0001_r_000002_0
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Starting task: attem
pt_local2033775725_0001_r_000003_0
16/01/26 06:09:25 INFO util.ProcfsBasedProcessTree: ProcfsBasedPro
cessTree currently is supported only on Linux.
16/01/26 06:09:25 INFO mapred.Task: Using ResourceCalculatorProce
ssTree : null
16/01/26 06:09:25 INFO mapred.ReduceTask: Using ShuffleConsumerPlu
gin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@795a2ae9
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: MergerManager: mem
oryLimit=333971456, maxSingleShuffleLimit=83492864, mergeThreshol
d=220421168, ioSortFactor=10, memToMemMergeOutputsThreshold=10
16/01/26 06:09:25 INFO reduce.EventFetcher: attempt_local203377572
5_0001_r_000003_0 Thread started: EventFetcher for fetching Map Co
mpletion Events
16/01/26 06:09:25 INFO reduce.LocalFetcher: localfetcher#4 about t
o shuffle output of map attempt_local2033775725_0001_m_000000_0 de
comp: 14001 len: 14005 to MEMORY
16/01/26 06:09:25 INFO reduce.InMemoryMapOutput: Read 14001 bytes
from map-output for attempt_local2033775725_0001_m_000000_0
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: closeInMemoryFile
-> map-output of size: 14001, inMemoryMapOutputs.size() -> 1, comm
itMemory -> 0, usedMemory ->14001
16/01/26 06:09:25 INFO reduce.EventFetcher: EventFetcher is interr
upted.. Returning
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: finalMerge called
with 1 in-memory map-outputs and 0 on-disk map-outputs
16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 13991 bytes
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merged 1 segments,
14001 bytes to disk to satisfy reduce memory limit
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 1 files, 1
4005 bytes from disk
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 0 segment
s, 0 bytes from memory into reduce
16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass,
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with 1 segments left of total size: 13991 bytes
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO streaming.PipeMapRed: PipeMapRed exec [/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/./reducer.py]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=100/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=1000/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: Records R/W=1009/1
16/01/26 06:09:25 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:09:25 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:09:25 INFO mapred.Task: Task:attempt_local2033775725_0001_r_000003_0 is done. And is in the process of committing
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO mapred.Task: Task attempt_local2033775725_0001_r_000003_0 is allowed to commit now
16/01/26 06:09:25 INFO output.FileOutputCommitter: Saved output of task 'attempt_local2033775725_0001_r_000003_0' to hdfs://localhost:9000/user/jing/test-output1/_temporary/0/task_local2033775725_0001_r_000003
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Records R/W=1009/1 > reduce
16/01/26 06:09:25 INFO mapred.Task: Task 'attempt_local2033775725_0001_r_000003_0' done.
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Finishing task: attempt_local2033775725_0001_r_000003_0
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Starting task: attempt_local2033775725_0001_r_000004_0
16/01/26 06:09:25 INFO util.ProcfsBasedProcessTree: ProcfsBasedProcessTree currently is supported only on Linux.
16/01/26 06:09:25 INFO mapred.Task: Using ResourceCalculatorProcessTree : null
16/01/26 06:09:25 INFO mapred.ReduceTask: Using ShuffleConsumerPlugin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@18f68555
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: MergeManager: memoryLimit=333971456, maxSingleShuffleLimit=83492864, mergeThreshold=220421168, ioSortFactor=10, memToMemMergeOutputsThreshold=10
16/01/26 06:09:25 INFO reduce.EventFetcher: attempt_local2033775725_0001_r_000004_0 Thread started: EventFetcher for fetching Map Completion Events
16/01/26 06:09:25 INFO reduce.LocalFetcher: localfetcher#5 about to shuffle output of map attempt_local2033775725_0001_m_000000_0 decomp: 14218 len: 14222 to MEMORY
16/01/26 06:09:25 INFO reduce.InMemoryMapOutput: Read 14218 bytes from map-output for attempt_local2033775725_0001_m_000000_0
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: closeInMemoryFile -> map-output of size: 14218, inMemoryMapOutputs.size() -> 1, commitMemory -> 0, usedMemory -> 14218
16/01/26 06:09:25 INFO reduce.EventFetcher: EventFetcher is interrupted.. Returning
```

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16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: finalMerge called
with 1 in-memory map-outputs and 0 on-disk map-outputs
16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 14207 bytes
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merged 1 segments,
14218 bytes to disk to satisfy reduce memory limit
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 1 files, 1
4222 bytes from disk
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 0 segment
s, 0 bytes from memory into reduce
16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 14207 bytes
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO streaming.PipeMapRed: PipeMapRed exec [/Use
rs/JingXu/Dropbox/DataScience/W261/w261/HW2/./reducer.py]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [re
c/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [r
ec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=100/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=1000/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: Records R/W=1022/1
16/01/26 06:09:25 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:09:25 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:09:25 INFO mapred.Task: Task:attempt_local2033775725_0
001_r_000004_0 is done. And is in the process of committing
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO mapred.Task: Task attempt_local2033775725_0
001_r_000004_0 is allowed to commit now
16/01/26 06:09:25 INFO output.FileOutputCommitter: Saved output of
task 'attempt_local2033775725_0001_r_000004_0' to hdfs://localhos
t:9000/user/jing/test-output1/_temporary/0/task_local2033775725_00
01_r_000004
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Records R/W=1022/1 >
reduce
16/01/26 06:09:25 INFO mapred.Task: Task 'attempt_local203377572
5_0001_r_000004_0' done.
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Finishing task: atte
mpt_local2033775725_0001_r_000004_0
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Starting task: attem
pt_local2033775725_0001_r_000005_0
16/01/26 06:09:25 INFO util.ProcfsBasedProcessTree: ProcfsBasedPro
cessTree currently is supported only on Linux.
16/01/26 06:09:25 INFO mapred.Task: Using ResourceCalculatorProce
ssTree : null
16/01/26 06:09:25 INFO mapred.ReduceTask: Using ShuffleConsumerPlu
gin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@1d2ab101
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: MergerManager: mem
oryLimit=333971456, maxSingleShuffleLimit=83492864, mergeThreshol
```



```
d=220421168, ioSortFactor=10, memToMemMergeOutputsThreshold=10
16/01/26 06:09:25 INFO reduce.EventFetcher: attempt_local203377572
5_0001_r_000005_0 Thread started: EventFetcher for fetching Map Co
mpletion Events
16/01/26 06:09:25 INFO reduce.LocalFetcher: localfetcher#6 about t
o shuffle output of map attempt_local2033775725_0001_m_000000_0 de
comp: 14329 len: 14333 to MEMORY
16/01/26 06:09:25 INFO reduce.InMemoryMapOutput: Read 14329 bytes
from map-output for attempt_local2033775725_0001_m_000000_0
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: closeInMemoryFile
-> map-output of size: 14329, inMemoryMapOutputs.size() -> 1, comm
itMemory -> 0, usedMemory ->14329
16/01/26 06:09:25 INFO reduce.EventFetcher: EventFetcher is interr
upted.. Returning
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: finalMerge called
with 1 in-memory map-outputs and 0 on-disk map-outputs
16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 14319 bytes
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merged 1 segments,
14329 bytes to disk to satisfy reduce memory limit
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 1 files, 1
4333 bytes from disk
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 0 segment
s, 0 bytes from memory into reduce
16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 14319 bytes
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO streaming.PipeMapRed: PipeMapRed exec [/Use
rs/JingXu/Dropbox/DataScience/W261/w261/HW2/./reducer.py]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [re
c/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [r
ec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=100/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=1000/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: Records R/W=1031/1
16/01/26 06:09:25 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:09:25 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:09:25 INFO mapred.Task: Task:attempt_local2033775725_0
001_r_000005_0 is done. And is in the process of committing
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO mapred.Task: Task attempt_local2033775725_0
001_r_000005_0 is allowed to commit now
16/01/26 06:09:25 INFO output.FileOutputCommitter: Saved output of
task 'attempt_local2033775725_0001_r_000005_0' to hdfs://localhos
t:9000/user/jing/test-output1/_temporary/0/task_local2033775725_00
01_r_000005
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Records R/W=1031/1 >
reduce
```

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16/01/26 06:09:25 INFO mapred.Task: Task 'attempt_local2033775725_0001_r_000005_0' done.
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Finishing task: attempt_local2033775725_0001_r_000005_0
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Starting task: attempt_local2033775725_0001_r_000006_0
16/01/26 06:09:25 INFO util.ProcfsBasedProcessTree: ProcfsBasedProcessTree currently is supported only on Linux.
16/01/26 06:09:25 INFO mapred.Task: Using ResourceCalculatorProcessTree : null
16/01/26 06:09:25 INFO mapred.ReduceTask: Using ShuffleConsumerPlugin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@28ec06eb
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: MergeManager: memoryLimit=333971456, maxSingleShuffleLimit=83492864, mergeThreshold=220421168, ioSortFactor=10, memToMemMergeOutputsThreshold=10
16/01/26 06:09:25 INFO reduce.EventFetcher: attempt_local2033775725_0001_r_000006_0 Thread started: EventFetcher for fetching Map Completion Events
16/01/26 06:09:25 INFO reduce.LocalFetcher: localfetcher#7 about to shuffle output of map attempt_local2033775725_0001_m_000000_0 decomp: 13152 len: 13156 to MEMORY
16/01/26 06:09:25 INFO reduce.InMemoryMapOutput: Read 13152 bytes from map-output for attempt_local2033775725_0001_m_000000_0
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: closeInMemoryFile -> map-output of size: 13152, inMemoryMapOutputs.size() -> 1, commitMemory -> 0, usedMemory ->13152
16/01/26 06:09:25 INFO reduce.EventFetcher: EventFetcher is interrupted.. Returning
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: finalMerge called with 1 in-memory map-outputs and 0 on-disk map-outputs
16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 13142 bytes
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merged 1 segments, 13152 bytes to disk to satisfy reduce memory limit
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 1 files, 13156 bytes from disk
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 0 segments, 0 bytes from memory into reduce
16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 13142 bytes
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO streaming.PipeMapRed: PipeMapRed exec [/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/./reducer.py]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=100/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: Records R/W=948/1
16/01/26 06:09:25 INFO streaming.PipeMapRed: MRErrorThread done
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16/01/26 06:09:25 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:09:25 INFO mapred.Task: Task:attempt_local2033775725_0
001_r_000006_0 is done. And is in the process of committing
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO mapred.Task: Task attempt_local2033775725_0
001_r_000006_0 is allowed to commit now
16/01/26 06:09:25 INFO output.FileOutputCommitter: Saved output of
task 'attempt_local2033775725_0001_r_000006_0' to hdfs://localhos
t:9000/user/jing/test-output1/_temporary/0/task_local2033775725_00
01_r_000006
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Records R/W=948/1 >
reduce
16/01/26 06:09:25 INFO mapred.Task: Task 'attempt_local203377572
5_0001_r_000006_0' done.
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Finishing task: atte
mpt_local2033775725_0001_r_000006_0
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Starting task: attem
pt_local2033775725_0001_r_000007_0
16/01/26 06:09:25 INFO util.ProcfsBasedProcessTree: ProcfsBasedPro
cessTree currently is supported only on Linux.
16/01/26 06:09:25 INFO mapred.Task: Using ResourceCalculatorProce
ssTree : null
16/01/26 06:09:25 INFO mapred.ReduceTask: Using ShuffleConsumerPlu
gin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@5ea4007a
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: MergerManager: mem
oryLimit=333971456, maxSingleShuffleLimit=83492864, mergeThreshol
d=220421168, ioSortFactor=10, memToMemMergeOutputsThreshold=10
16/01/26 06:09:25 INFO reduce.EventFetcher: attempt_local203377572
5_0001_r_000007_0 Thread started: EventFetcher for fetching Map Co
mpletion Events
16/01/26 06:09:25 INFO reduce.LocalFetcher: localfetcher#8 about t
o shuffle output of map attempt_local2033775725_0001_m_000000_0 de
comp: 14677 len: 14681 to MEMORY
16/01/26 06:09:25 INFO reduce.InMemoryMapOutput: Read 14677 bytes
from map-output for attempt_local2033775725_0001_m_000000_0
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: closeInMemoryFile
-> map-output of size: 14677, inMemoryMapOutputs.size() -> 1, comm
itMemory -> 0, usedMemory ->14677
16/01/26 06:09:25 INFO reduce.EventFetcher: EventFetcher is interr
upted.. Returning
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: finalMerge called
with 1 in-memory map-outputs and 0 on-disk map-outputs
16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 14667 bytes
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merged 1 segments,
14677 bytes to disk to satisfy reduce memory limit
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 1 files, 1
4681 bytes from disk
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 0 segment
s, 0 bytes from memory into reduce
16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass,
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with 1 segments left of total size: 14667 bytes
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO streaming.PipeMapRed: PipeMapRed exec [/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/./reducer.py]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=100/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=1000/0/0 in:NA [rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: Records R/W=1057/1
16/01/26 06:09:25 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:09:25 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:09:25 INFO mapred.Task: Task:attempt_local2033775725_0001_r_000007_0 is done. And is in the process of committing
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO mapred.Task: Task attempt_local2033775725_0001_r_000007_0 is allowed to commit now
16/01/26 06:09:25 INFO output.FileOutputCommitter: Saved output of task 'attempt_local2033775725_0001_r_000007_0' to hdfs://localhost:9000/user/jing/test-output1/_temporary/0/task_local2033775725_0001_r_000007
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Records R/W=1057/1 > reduce
16/01/26 06:09:25 INFO mapred.Task: Task 'attempt_local2033775725_0001_r_000007_0' done.
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Finishing task: attempt_local2033775725_0001_r_000007_0
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Starting task: attempt_local2033775725_0001_r_000008_0
16/01/26 06:09:25 INFO util.ProcfsBasedProcessTree: ProcfsBasedProcessTree currently is supported only on Linux.
16/01/26 06:09:25 INFO mapred.Task: Using ResourceCalculatorProcessTree : null
16/01/26 06:09:25 INFO mapred.ReduceTask: Using ShuffleConsumerPlugin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@32a347c6
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: MergeManager: memoryLimit=333971456, maxSingleShuffleLimit=83492864, mergeThreshold=220421168, ioSortFactor=10, memToMemMergeOutputsThreshold=10
16/01/26 06:09:25 INFO reduce.EventFetcher: attempt_local2033775725_0001_r_000008_0 Thread started: EventFetcher for fetching Map Completion Events
16/01/26 06:09:25 INFO reduce.LocalFetcher: localfetcher#9 about to shuffle output of map attempt_local2033775725_0001_m_000000_0 decomp: 13531 len: 13535 to MEMORY
16/01/26 06:09:25 INFO reduce.InMemoryMapOutput: Read 13531 bytes from map-output for attempt_local2033775725_0001_m_000000_0
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: closeInMemoryFile -> map-output of size: 13531, inMemoryMapOutputs.size() -> 1, commitMemory -> 0, usedMemory ->13531
16/01/26 06:09:25 INFO reduce.EventFetcher: EventFetcher is interrupted.. Returning
```

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16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: finalMerge called
with 1 in-memory map-outputs and 0 on-disk map-outputs
16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 13520 bytes
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merged 1 segments,
13531 bytes to disk to satisfy reduce memory limit
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 1 files, 1
3535 bytes from disk
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 0 segment
s, 0 bytes from memory into reduce
16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 13520 bytes
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO streaming.PipeMapRed: PipeMapRed exec [/Use
rs/JingXu/Dropbox/DataScience/W261/w261/HW2/./reducer.py]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [re
c/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [r
ec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=100/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:09:25 INFO streaming.PipeMapRed: Records R/W=974/1
16/01/26 06:09:25 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:09:25 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:09:25 INFO mapred.Task: Task:attempt_local2033775725_0
001_r_000008_0 is done. And is in the process of committing
16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:09:25 INFO mapred.Task: Task attempt_local2033775725_0
001_r_000008_0 is allowed to commit now
16/01/26 06:09:25 INFO output.FileOutputCommitter: Saved output of
task 'attempt_local2033775725_0001_r_000008_0' to hdfs://localhos
t:9000/user/jing/test-output1/_temporary/0/task_local2033775725_00
01_r_000008
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Records R/W=974/1 >
reduce
16/01/26 06:09:25 INFO mapred.Task: Task 'attempt_local203377572
5_0001_r_000008_0' done.
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Finishing task: atte
mpt_local2033775725_0001_r_000008_0
16/01/26 06:09:25 INFO mapred.LocalJobRunner: Starting task: attem
pt_local2033775725_0001_r_000009_0
16/01/26 06:09:25 INFO util.ProcfsBasedProcessTree: ProcfsBasedPro
cessTree currently is supported only on Linux.
16/01/26 06:09:25 INFO mapred.Task: Using ResourceCalculatorProce
ssTree : null
16/01/26 06:09:25 INFO mapred.ReduceTask: Using ShuffleConsumerPlu
gin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@7a115cd5
16/01/26 06:09:25 INFO reduce.MergeManagerImpl: MergerManager: mem
oryLimit=333971456, maxSingleShuffleLimit=83492864, mergeThreshol
d=220421168, ioSortFactor=10, memToMemMergeOutputsThreshold=10
16/01/26 06:09:25 INFO reduce.EventFetcher: attempt_local203377572
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5_0001_r_000009_0 Thread started: EventFetcher for fetching Map Completion Events

16/01/26 06:09:25 INFO reduce.LocalFetcher: localfetcher#10 about to shuffle output of map attempt_local2033775725_0001_m_000000_0 d
ecompile: 13662 len: 13666 to MEMORY

16/01/26 06:09:25 INFO reduce.InMemoryMapOutput: Read 13662 bytes from map-output for attempt_local2033775725_0001_m_000000_0

16/01/26 06:09:25 INFO reduce.MergeManagerImpl: closeInMemoryFile -> map-output of size: 13662, inMemoryMapOutputs.size() -> 1, commitMemory -> 0, usedMemory ->13662

16/01/26 06:09:25 INFO reduce.EventFetcher: EventFetcher is interrupted.. Returning

16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.

16/01/26 06:09:25 INFO reduce.MergeManagerImpl: finalMerge called with 1 in-memory map-outputs and 0 on-disk map-outputs

16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments

16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 13651 bytes

16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merged 1 segments, 13662 bytes to disk to satisfy reduce memory limit

16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 1 files, 13666 bytes from disk

16/01/26 06:09:25 INFO reduce.MergeManagerImpl: Merging 0 segments, 0 bytes from memory into reduce

16/01/26 06:09:25 INFO mapred.Merger: Merging 1 sorted segments

16/01/26 06:09:25 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 13651 bytes

16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.

16/01/26 06:09:25 INFO streaming.PipeMapRed: PipeMapRed exec [/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/./reducer.py]

16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [rec/s] out:NA [rec/s]

16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [rec/s] out:NA [rec/s]

16/01/26 06:09:25 INFO streaming.PipeMapRed: R/W/S=100/0/0 in:NA [rec/s] out:NA [rec/s]

16/01/26 06:09:25 INFO streaming.PipeMapRed: Records R/W=982/1

16/01/26 06:09:25 INFO streaming.PipeMapRed: MRErrorThread done

16/01/26 06:09:25 INFO streaming.PipeMapRed: mapRedFinished

16/01/26 06:09:25 INFO mapred.Task: Task:attempt_local2033775725_0001_r_000009_0 is done. And is in the process of committing

16/01/26 06:09:25 INFO mapred.LocalJobRunner: 1 / 1 copied.

16/01/26 06:09:25 INFO mapred.Task: Task attempt_local2033775725_0001_r_000009_0 is allowed to commit now

16/01/26 06:09:25 INFO output.FileOutputCommitter: Saved output of task 'attempt_local2033775725_0001_r_000009_0' to hdfs://localhost:9000/user/jing/test-output1/_temporary/0/task_local2033775725_0001_r_000009

16/01/26 06:09:25 INFO mapred.LocalJobRunner: Records R/W=982/1 > reduce

16/01/26 06:09:25 INFO mapred.Task: Task 'attempt_local2033775725_0001_r_000009_0' done.

16/01/26 06:09:25 INFO mapred.LocalJobRunner: Finishing task: attempt_local2033775725_0001_r_000009_0

```
16/01/26 06:09:25 INFO mapred.LocalJobRunner: reduce task executor
complete.
16/01/26 06:09:26 INFO mapreduce.Job: map 100% reduce 100%
16/01/26 06:09:26 INFO mapreduce.Job: Job job_local2033775725_0001
completed successfully
16/01/26 06:09:26 INFO mapreduce.Job: Counters: 35
    File System Counters
        FILE: Number of bytes read=1776067
        FILE: Number of bytes written=5185508
        FILE: Number of read operations=0
        FILE: Number of large read operations=0
        FILE: Number of write operations=0
        HDFS: Number of bytes read=1197922
        HDFS: Number of bytes written=653618
        HDFS: Number of read operations=231
        HDFS: Number of large read operations=0
        HDFS: Number of write operations=121
    Map-Reduce Framework
        Map input records=10000
        Map output records=10000
        Map output bytes=118902
        Map output materialized bytes=138962
        Input split bytes=89
        Combine input records=0
        Combine output records=0
        Reduce input groups=6305
        Reduce shuffle bytes=138962
        Reduce input records=10000
        Reduce output records=10000
        Spilled Records=20000
        Shuffled Maps =10
        Failed Shuffles=0
        Merged Map outputs=10
        GC time elapsed (ms)=8
        Total committed heap usage (bytes)=3575644160
    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=108902
    File Output Format Counters
        Bytes Written=118902
16/01/26 06:09:26 INFO streaming.StreamJob: Output directory: /use
r/jing/test-output1/
16/01/26 06:09:27 WARN util.NativeCodeLoader: Unable to load nativ
e-hadoop library for your platform... using builtin-java classes w
here applicable
16/01/26 06:09:29 WARN util.NativeCodeLoader: Unable to load nativ
e-hadoop library for your platform... using builtin-java classes w
here applicable
```

9923, "NA"
9923, "NA"
9923, "NA"
9923, "NA"
9929, "NA"
9929, "NA"
9930, "NA"
9965, "NA"
9990, "NA"
9990, "NA"
13, "NA"
31, "NA"
31, "NA"
37, "NA"
37, "NA"
48, "NA"
73, "NA"
73, "NA"
79, "NA"
91, "NA"

10 Biggest Numbers:

9929, "NA"
9929, "NA"
9930, "NA"
9930, "NA"
9941, "NA"
9947, "NA"
9947, "NA"
9965, "NA"
9965, "NA"
9983, "NA"

10 Smallest Numbers:

13, "NA"
13, "NA"
13, "NA"
31, "NA"
48, "NA"
55, "NA"
73, "NA"
79, "NA"
91, "NA"
97, "NA"

If there are x multiple reducers, the outputs on hdfs will be divided into x total outputs, and then to read the biggest numbers we will have to find the last output file and read the tail 10 lines, and to read the smallest numbers find the first output file and read the head 10 lines.

****HW2.2 WORDCOUNT** Using the Enron data from HW1 and Hadoop MapReduce streaming, write the mapper/reducer job that will determine the word count (number of occurrences) of each white-space delimited token (assume spaces, fullstops, comma as delimiters). Examine the word “assistance” and report its word count results. ******

```
In [11]: %%writefile mapper.py
#!/usr/bin/python
## mapper.py
## Author: Jing Xu
## Description: mapper code for HW2.2

import sys
import re

WORD_RE = re.compile(r"[\w']+") # compile regex to easily parse complete words

# input comes from STDIN (standard input)
for line in sys.stdin:
    fields=line.split('\t') # parse line into separate fields
    subject_and_body=" ".join(fields[-2:]).strip()# parse the subject and body fields from the line, and combine into one string
    words=re.findall(WORD_RE,subject_and_body) # create list of words
    for word in words:
        print '%s\t%s' % (word, 1)
```

Overwriting mapper.py

```
In [12]: %%writefile reducer.py
#!/usr/bin/python
## reducer.py
## Author: Jing Xu
## Description: reducer code for HW2.2

from operator import itemgetter
import sys

current_word = None
current_count = 0
word = None

# input comes from STDIN
for line in sys.stdin:
    # remove leading and trailing whitespace
    line = line.strip()
    # parse the input we got from mapper.py
    word, count = line.split('\t', 1)
    # convert count (currently a string) to int
    try:
        count = int(count)
    except ValueError:
        # count was not a number, so silently
        # ignore/discard this line
        continue
    # this IF-switch only works because Hadoop sorts map output
    # by key (here: word) before it is passed to the reducer
    if current_word == word:
        current_count += count
    else:
        if current_word:
            # write result to STDOUT
            print '%s\t%s' % (current_word, current_count)
            current_count = count
            current_word = word

# do not forget to output the last word if needed!
if current_word == word:
    print '%s\t%s' % (current_word, current_count)
```

Overwriting reducer.py

```
In [15]: %%writefile mapreduce.sh
## mapreduce.sh
## Author: Jing Xu
## Description: mapreduce bash script for HW2.2

# Upload file to hdfs
hdfs dfs -mkdir /user #create hdfs folder
wait
hdfs dfs -mkdir /user/jing #create hdfs folder
wait
hadoop fs -put enronemail_1h.txt /user/jing #upload local file to h
dfs folder
wait

#hadoop command to run streaming mapreduce job
hadoop jar /Users/JingXu/Documents/hadoop-2.6.3/share/hadoop/tool
s/lib/hadoop-streaming-2.6.3.jar \
-file mapper.py -mapper mapper.py \
-file reducer.py -reducer reducer.py \
-input /user/jing/* -output /user/jing/test-output1/
wait

hadoop fs -get /user/jing/test-output1/part-00000 part-00000
wait

cat part-00000 #print contents of the word count output file
wait

hdfs dfs -rmr /user/jing #remove hdfs folder
hdfs dfs -rmr /user #remove hdfs folder
rm part-00000 #delete results
```

Overwriting mapreduce.sh

```
In [16]: # run the mapreduce shell script to look at word count results  
         !./mapreduce.sh
```

```
16/01/26 06:10:25 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:10:26 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:10:28 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:10:29 WARN streaming.StreamJob: -file option is deprecated, please use generic option -files instead.
16/01/26 06:10:30 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
packageJobJar: [mapper.py, reducer.py] [] /var/folders/zs/k144hqks281fbt0x68c_zj9m0000gp/T/streamjob8191754876691964668.jar tmpDir=null
16/01/26 06:10:30 INFO Configuration.deprecation: session.id is deprecated. Instead, use dfs.metrics.session-id
16/01/26 06:10:30 INFO jvm.JvmMetrics: Initializing JVM Metrics with processName=JobTracker, sessionId=
16/01/26 06:10:30 INFO jvm.JvmMetrics: Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
16/01/26 06:10:31 INFO mapred.FileInputFormat: Total input paths to process : 1
16/01/26 06:10:31 INFO mapreduce.JobSubmitter: number of splits:1
16/01/26 06:10:31 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_local316744563_0001
16/01/26 06:10:31 INFO mapred.LocalDistributedCacheManager: Localized file:/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/mapper.py as file:/tmp/hadoop-JingXu/mapred/local/1453817431399/mapper.py
16/01/26 06:10:31 INFO mapred.LocalDistributedCacheManager: Localized file:/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/reducer.py as file:/tmp/hadoop-JingXu/mapred/local/1453817431400/reducer.py
16/01/26 06:10:31 INFO mapreduce.Job: The url to track the job: http://localhost:8080/
16/01/26 06:10:31 INFO mapred.LocalJobRunner: OutputCommitter set in config null
16/01/26 06:10:31 INFO mapreduce.Job: Running job: job_local316744563_0001
16/01/26 06:10:31 INFO mapred.LocalJobRunner: OutputCommitter is org.apache.hadoop.mapred.FileOutputCommitter
16/01/26 06:10:31 INFO mapred.LocalJobRunner: Waiting for map tasks
16/01/26 06:10:31 INFO mapred.LocalJobRunner: Starting task: attempt_local316744563_0001_m_000000_0
16/01/26 06:10:31 INFO util.ProcfsBasedProcessTree: ProcfsBasedProcessTree currently is supported only on Linux.
16/01/26 06:10:31 INFO mapred.Task: Using ResourceCalculatorProcessTree : null
16/01/26 06:10:31 INFO mapred.MapTask: Processing split: hdfs://localhost:9000/user/jing/enronemail_1h.txt:0+203981
16/01/26 06:10:31 INFO mapred.MapTask: numReduceTasks: 1
```

```
16/01/26 06:10:31 INFO mapred.MapTask: (EQUATOR) 0 kvi 26214396(10
4857584)
16/01/26 06:10:31 INFO mapred.MapTask: mapreduce.task.io.sort.mb:
100
16/01/26 06:10:31 INFO mapred.MapTask: soft limit at 83886080
16/01/26 06:10:31 INFO mapred.MapTask: bufstart = 0; bufvoid = 104
857600
16/01/26 06:10:31 INFO mapred.MapTask: kvstart = 26214396; length
= 6553600
16/01/26 06:10:31 INFO mapred.MapTask: Map output collector class
= org.apache.hadoop.mapred.MapTask$MapOutputBuffer
16/01/26 06:10:31 INFO streaming.PipeMapRed: PipeMapRed exec [/Use
rs/JingXu/Dropbox/DataScience/W261/w261/HW2/./mapper.py]
16/01/26 06:10:31 INFO Configuration.deprecation: mapred.task.id i
s deprecated. Instead, use mapreduce.task.attempt.id
16/01/26 06:10:31 INFO Configuration.deprecation: user.name is dep
recated. Instead, use mapreduce.job.user.name
16/01/26 06:10:31 INFO Configuration.deprecation: map.input.start
is deprecated. Instead, use mapreduce.map.input.start
16/01/26 06:10:31 INFO Configuration.deprecation: mapred.task.is.m
ap is deprecated. Instead, use mapreduce.task.ismap
16/01/26 06:10:31 INFO Configuration.deprecation: mapred.tip.id is
deprecated. Instead, use mapreduce.task.id
16/01/26 06:10:31 INFO Configuration.deprecation: mapred.skip.on i
s deprecated. Instead, use mapreduce.job.skiprecords
16/01/26 06:10:31 INFO Configuration.deprecation: mapred.task.part
ition is deprecated. Instead, use mapreduce.task.partition
16/01/26 06:10:31 INFO Configuration.deprecation: map.input.length
is deprecated. Instead, use mapreduce.map.input.length
16/01/26 06:10:31 INFO Configuration.deprecation: mapred.local.dir
is deprecated. Instead, use mapreduce.cluster.local.dir
16/01/26 06:10:31 INFO Configuration.deprecation: mapred.work.outp
ut.dir is deprecated. Instead, use mapreduce.task.output.dir
16/01/26 06:10:31 INFO Configuration.deprecation: map.input.file i
s deprecated. Instead, use mapreduce.map.input.file
16/01/26 06:10:31 INFO Configuration.deprecation: mapred.job.id is
deprecated. Instead, use mapreduce.job.id
16/01/26 06:10:31 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [re
c/s] out:NA [rec/s]
16/01/26 06:10:31 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [r
ec/s] out:NA [rec/s]
16/01/26 06:10:31 INFO streaming.PipeMapRed: Records R/W=73/1
16/01/26 06:10:31 INFO streaming.PipeMapRed: R/W/S=100/615/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:10:31 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:10:31 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:10:31 INFO mapred.LocalJobRunner:
16/01/26 06:10:31 INFO mapred.MapTask: Starting flush of map outpu
t
16/01/26 06:10:31 INFO mapred.MapTask: Spilling map output
16/01/26 06:10:31 INFO mapred.MapTask: bufstart = 0; bufend = 2522
09; bufvoid = 104857600
16/01/26 06:10:31 INFO mapred.MapTask: kvstart = 26214396(10485758
4); kvend = 26082748(104330992); length = 131649/6553600
```

```
16/01/26 06:10:32 INFO mapred.MapTask: Finished spill 0
16/01/26 06:10:32 INFO mapred.Task: Task:attempt_local316744563_001_m_000000_0 is done. And is in the process of committing
16/01/26 06:10:32 INFO mapred.LocalJobRunner: Records R/W=73/1
16/01/26 06:10:32 INFO mapred.Task: Task 'attempt_local316744563_001_m_000000_0' done.
16/01/26 06:10:32 INFO mapred.LocalJobRunner: Finishing task: attempt_local316744563_0001_m_000000_0
16/01/26 06:10:32 INFO mapred.LocalJobRunner: map task executor complete.
16/01/26 06:10:32 INFO mapred.LocalJobRunner: Waiting for reduce tasks
16/01/26 06:10:32 INFO mapred.LocalJobRunner: Starting task: attempt_local316744563_0001_r_000000_0
16/01/26 06:10:32 INFO util.ProcfsBasedProcessTree: ProcfsBasedProcessTree currently is supported only on Linux.
16/01/26 06:10:32 INFO mapred.Task: Using ResourceCalculatorProcessTree : null
16/01/26 06:10:32 INFO mapred.ReduceTask: Using ShuffleConsumerPlugin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@26190041
16/01/26 06:10:32 INFO reduce.MergeManagerImpl: MergerManager: memoryLimit=333971456, maxSingleShuffleLimit=83492864, mergeThreshold=220421168, ioSortFactor=10, memToMemMergeOutputsThreshold=10
16/01/26 06:10:32 INFO reduce.EventFetcher: attempt_local316744563_0001_r_000000_0 Thread started: EventFetcher for fetching Map Completion Events
16/01/26 06:10:32 INFO reduce.LocalFetcher: localfetcher#1 about to shuffle output of map attempt_local316744563_0001_m_000000_0 decomp: 318037 len: 318041 to MEMORY
16/01/26 06:10:32 INFO reduce.InMemoryMapOutput: Read 318037 bytes from map-output for attempt_local316744563_0001_m_000000_0
16/01/26 06:10:32 INFO reduce.MergeManagerImpl: closeInMemoryFile -> map-output of size: 318037, inMemoryMapOutputs.size() -> 1, commitMemory -> 0, usedMemory -> 318037
16/01/26 06:10:32 INFO reduce.EventFetcher: EventFetcher is interrupted.. Returning
16/01/26 06:10:32 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:10:32 INFO reduce.MergeManagerImpl: finalMerge called with 1 in-memory map-outputs and 0 on-disk map-outputs
16/01/26 06:10:32 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:10:32 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 318033 bytes
16/01/26 06:10:32 INFO reduce.MergeManagerImpl: Merged 1 segments, 318037 bytes to disk to satisfy reduce memory limit
16/01/26 06:10:32 INFO reduce.MergeManagerImpl: Merging 1 files, 318041 bytes from disk
16/01/26 06:10:32 INFO reduce.MergeManagerImpl: Merging 0 segments, 0 bytes from memory into reduce
16/01/26 06:10:32 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:10:32 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 318033 bytes
16/01/26 06:10:32 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:10:32 INFO streaming.PipeMapRed: PipeMapRed exec [/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/./reducer.py]
```



```
16/01/26 06:10:32 INFO Configuration.deprecation: mapred.job.track
er is deprecated. Instead, use mapreduce.jobtracker.address
16/01/26 06:10:32 INFO Configuration.deprecation: mapred.map.tasks
is deprecated. Instead, use mapreduce.job.maps
16/01/26 06:10:32 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [re
c/s] out:NA [rec/s]
16/01/26 06:10:32 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [r
ec/s] out:NA [rec/s]
16/01/26 06:10:32 INFO streaming.PipeMapRed: R/W/S=100/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:10:32 INFO streaming.PipeMapRed: R/W/S=1000/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:10:32 INFO streaming.PipeMapRed: R/W/S=10000/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:10:32 INFO streaming.PipeMapRed: Records R/W=21824/1
16/01/26 06:10:32 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:10:32 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:10:32 INFO mapred.Task: Task:attempt_local316744563_00
01_r_000000_0 is done. And is in the process of committing
16/01/26 06:10:32 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:10:32 INFO mapred.Task: Task attempt_local316744563_00
01_r_000000_0 is allowed to commit now
16/01/26 06:10:32 INFO output.FileOutputCommitter: Saved output of
task 'attempt_local316744563_0001_r_000000_0' to hdfs://localhos
t:9000/user/jing/test-output1/_temporary/0/task_local316744563_000
1_r_000000
16/01/26 06:10:32 INFO mapred.LocalJobRunner: Records R/W=21824/1
> reduce
16/01/26 06:10:32 INFO mapred.Task: Task 'attempt_local316744563_0
001_r_000000_0' done.
16/01/26 06:10:32 INFO mapred.LocalJobRunner: Finishing task: atte
mpt_local316744563_0001_r_000000_0
16/01/26 06:10:32 INFO mapred.LocalJobRunner: reduce task executor
complete.
16/01/26 06:10:32 INFO mapreduce.Job: Job job_local316744563_0001
running in uber mode : false
16/01/26 06:10:32 INFO mapreduce.Job: map 100% reduce 100%
16/01/26 06:10:32 INFO mapreduce.Job: Job job_local316744563_0001
completed successfully
16/01/26 06:10:32 INFO mapreduce.Job: Counters: 35
```

File System Counters

```
FILE: Number of bytes read=642028
FILE: Number of bytes written=1478111
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=407962
HDFS: Number of bytes written=53488
HDFS: Number of read operations=15
HDFS: Number of large read operations=0
HDFS: Number of write operations=4
```

Map-Reduce Framework

```
Map input records=101
Map output records=32913
```

```

Map output bytes=252209
Map output materialized bytes=318041
Input split bytes=101
Combine input records=0
Combine output records=0
Reduce input groups=5491
Reduce shuffle bytes=318041
Reduce input records=32913
Reduce output records=5491
Spilled Records=65826
Shuffled Maps =1
Failed Shuffles=0
Merged Map outputs=1
GC time elapsed (ms)=9
Total committed heap usage (bytes)=582483968

```

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=203981

```

File Output Format Counters

```

Bytes Written=53488

```

```

16/01/26 06:10:32 INFO streaming.StreamJob: Output directory: /user/jing/test-output1/

```

```

16/01/26 06:10:33 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

```

```

'      3
'bcli    1
'benewm  1
'bjeffrie      1
'blong    1
'bredd    1
'celias    1
'cenochs      1
'chuck    1
'colliw    1
'connie    1
'ctise    1
'davidyi      1
'dfelsinger    1
'dkohler      1
'dmao    1
'don    1
'doug    1
'dronn    1
'five    1
'gary    1
'glen    1
'hal    1

```

'hans	1
'harry_wijsman	1
'hoferc	1
'iccenergy	1
'ilydiatt	1
'jeff	1
'jlopes	1
'jnexon	1
'john	1
'jones	1
'jonesg	1
'jshorter	1
'kelly	1
'kenny	1
'larry	1
'llittle	1
'mcclankg	1
'mcosta	1
'michael_huse	1
'mmce	1
'mperkins	1
'msessa	1
'njwa	1
'pete	1
'prez	1
'priscilla	1
'pwarden	1
'randall	1
'randy	1
'reason	1
'repling	1
'richard	1
'richardddaniel	1
'rsbaker	1
'ryanmcgeachie	1
'sallen	1
'scampbell	1
'sdba	1
'singleton	1
'smithc	1
'stefkatz	1
'steve	1
'swbe	1
'swidner	1
'taylor	1
'taylorja	1
'tgary	1
'travis	1
'underga	1
'william	1
'wisew	1
0	7
00	31
000	52

001	2	
0011	1	
00450	1	
01	24	
012	4	
02	19	
028	1	
0281	1	
03	3	
036474336		1
04	7	
048	1	
05	4	
055	2	
06	21	
0643	1	
07	10	
08	22	
081	2	
088889774		1
09	21	
1	69	
10	44	
100	18	
100's	1	
100038	1	
1016	1	
103	1	
107	1	
108	1	
11	15	
114427	1	
12	74	
120	1	
1200	2	
122	1	
123	3	
123395	1	
124	3	
125	2	
126	2	
13	13	
134	1	
14	33	
146907159		1
148415904		1
1488230796		1
149	1	
15	25	
150	1	
1500	1	
151	1	
1517	1	
16	5	

161	1	
1687	1	
1689	1	
17	19	
18	18	
1814	1	
1848	1	
1864	1	
19	9	
1928	1	
1930	1	
1932	1	
1933	1	
1934	1	
1935	1	
1936	1	
1938	1	
1941	1	
1942	1	
1944	1	
1945	1	
1947	1	
1949	1	
1953	1	
1980	2	
1990	2	
1992	3	
1997	3	
1998	2	
1999	10	
2	80	
2 '00	2	
20	20	
200	3	
2000	30	
2001	29	
2002	2	
2003	19	
2004	16	
2005	3	
201	2	
2020	1	
2086	1	
209318	1	
21	3	
211075433222		2
212	3	
213	1	
2152	1	
22	8	
224	1	
229	2	
23	4	
230	1	

234	1	
24	27	
249	2	
2497	1	
25	4	
250	1	
2500	1	
252050406		1
255326837		1
256	1	
25711	2	
2575	4	
259	1	
26	5	
260	2	
263	2	
2666	1	
27	6	
27049	2	
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when	33	
where	13	
whereby	2	
whether	4	
which	47	
while	14	
whiskey	1	
whitehorse	1	
who	27	
whole	2	
wholesale	15	
whom	1	
whooping	1	
whose	2	
why	11	
wide	1	
widow	2	
wife	3	

will	234	
willbe	1	
williams		7
willie	1	
willing	1	
wilson	2	
win	18	
wind	1	
window	1	
windows	12	
windowsentities	1	
windred	1	
wing	1	
winner	3	
winners	2	
winning	4	
wisely	2	
wish	7	
wishes	1	
wishing	1	
with	200	
with'center		1
withers	4	
within	25	
without	10	
wives	1	
women	3	
won	1	
won't	5	
wonder	2	
wonderful		1
wondering		1
woo	1	
wood	1	
woodwork		1
woolgar	1	
word	9	
wording	1	
words	8	
work	32	
workable		1
worked	3	
workforce		1
working	10	
workout	1	
works	11	
workstation		1
world	10	
worldwide		11
worry	2	
worrying		1
worse	1	
worst	1	
worth	1	

worthless	1
worthwhile	1
would	73
wouldn't	4
wound	1
wpd	2
wr	1
wrinkle	1
write	13
writing	7
written	6
wrong	3
wrote	3
ws	1
wsc	1
wugn	1
www	46
wyn	2
wynne	2
wynpublishing	1
x	20
xacnax	1
xan	2
xanax	3
xeni	2
xent	2
xes	1
xm	1
xp	6
xpress	1
xqirzd	1
yahoo	7
yanowski	1
yard	2
ycon	2
yeah	2
year	25
yearno	1
years	22
yellow	1
yes	7
yesterday	7
yesterdays	1
yet	5
yjoou	1
you	432
you'd	1
you'll	5
you're	2
you've	4
youcan	1
young	2
your	394
yourmembership	2

```
yours      3
yourself   11
yoursuccess 2
yowman     1
ypfpb      1
z           1
zaak       2
zaako      1
zac         2
zadorozhny 4
zero       4
zesto      10
zimin      5
zinc       1
zk         1
zo         2
zolam      2
zxs        1
```

rmr: DEPRECATED: Please use 'rm -r' instead.

16/01/26 06:10:35 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

16/01/26 06:10:35 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Empty interval = 0 minutes.

Deleted /user/jing

rmr: DEPRECATED: Please use 'rm -r' instead.

16/01/26 06:10:36 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

16/01/26 06:10:37 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Empty interval = 0 minutes.

Deleted /user

"assistance" has 10 occurrences

****HW2.3. Multinomial NAIVE BAYES with NO Smoothing Using the Enron data from HW1 and Hadoop MapReduce, write a mapper/reducer job(s) that will both learn Naive Bayes classifier and classify the Enron email messages using the learnt Naive Bayes classifier. Use all white-space delimited tokens as independent input variables (assume spaces, fullstops, commas as delimiters). Note: for multinomial Naive Bayes, the $\Pr(X=\text{"assistance"}|Y=\text{SPAM})$ is calculated as follows:****

the number of times “assistance” occurs in SPAM labeled documents / the number of words in documents labeled SPAM

E.g., “assistance” occurs 5 times in all of the documents Labeled SPAM, and the length in terms of the number of words in all documents labeled as SPAM (when concatenated) is 1,000. Then $\Pr(X=\text{"assistance"}|Y=\text{SPAM}) = 5/1000$. Note this is a multinomial estimation of the class conditional for a Naive Bayes Classifier. No smoothing is needed in this HW. Multiplying lots of probabilities, which are between 0 and 1, can result in floating-point underflow. Since $\log(xy) = \log(x) + \log(y)$, it is better to perform all computations by summing logs of probabilities rather than multiplying probabilities. Please pay attention to probabilities that are zero! They will need special attention. Count up how many times you need to process a zero probability for each class and report.

Report the performance of your learnt classifier in terms of misclassification error rate of your multinomial Naive Bayes Classifier. Plot a histogram of the log posterior probabilities (i.e., $\log(\Pr(\text{Class}|\text{Doc}))$) for each class over the training set. Summarize what you see.

Error Rate = misclassification rate with respect to a provided set (say training set in this case). It is more formally defined here:

****Let DF represent the evaluation set in the following: $\text{Err}(\text{Model}, \text{DF}) = |\{(X, c(X)) \in \text{DF} : c(X) \neq \text{Model}(x)\}| / |\text{DF}|$ ****

Where $||$ denotes set cardinality; $c(X)$ denotes the class of the tuple X in DF ; and $\text{Model}(X)$ denotes the class inferred by the Model “Model”

```
In [17]: %%writefile mapper.py
#!/usr/bin/python
#HW 2.3 - Mapper function
#This mapper function will send one line for every instance of every word to the reducer. This approach, while easier to write and debug, is unlikely to be the best choice for a larger scale implementation because of the large volume of data that would have to be sent to the reducers. A potentially more-streamlined alternative would be to add a "combiner" step at the end of the mapper that would send one line for each word-email combination (E.G. Key:email-word-flag, Value:count).
#In addition, if we only care about generating the conditional probabilities for each word and don't need to classify all the training emails, we could simplify the implementation even more and not send the email contents themselves to the reducer. Not only would this decrease throughput, but it would also dramatically reduce the amount of information that the reducer would need to store in memory. In this situation, our mapper could simply emit words along with their conditional class counts. I have not implemented this in this homework, but we'll want to keep this in mind for the future.

import sys
import re

WORD_RE = re.compile(r"[\w']+") #Compile regex to easily parse complete words

for line in sys.stdin:
    fields=line.split('\t') #parse line into separate fields
    if len(fields) == 4: #check if email data formatted correctly
        subject_and_body=" ".join(fields[-2:]).strip()#parse the subject and body fields from the line, and combine into one string
        words=re.findall(WORD_RE,subject_and_body) #create list of words
        for word in words:
            #This will send one row for every word instance to the reducer.
            print fields[0]+'\\t'+fields[1]+'\\t'+word
```

Overwriting mapper.py

```

In [18]: %%writefile reducer.py
#!/usr/bin/python
#HW 2.3 - Reducer function
#The reducer maintains two associative arrays.
#The first stores information about each word, including how
#many times it appears in spam and ham messages, as well as if it's
#been flagged in the mapper.
#The second stores information about emails, including whether it
#is marked as spam, as well as a list of
#words it contains.
#Once all the data has arrived from the mappers, the array containi
ng words is updated with the calculated
#conditional probabilities of spam and ham. At this point, the mode
l is "trained". Finally, these
#conditional probabilities are reapplied to the word lists associat
ed with each email to make the
#final spam/ham classification as an output file. There is also a c
ount for each zero probability calculation
#for each class.

from __future__ import division #Python 3-style division syntax is
much cleaner
import sys
from math import log

words={}
emails={}
spam_email_count=0 #number of emails marked as spam
spam_word_count=0 #number of total (not unique) words in spam email
s
ham_word_count=0 #number of total (not unique) words in ham emails
for line in sys.stdin:
    #parse the incoming line
    result=line.split("\t")
    email=result[0]
    spam=int(result[1])
    word=result[2]
    #initialize storage for word/email data
    if word not in words.keys():
        words[word]={'ham_count':0,'spam_count':0}
    if email not in emails.keys():
        emails[email]={'spam':spam,'word_count':0,'words':[]}
        if spam==1:
            spam_email_count+=1
    #store word data
    if spam==1:
        words[word]['spam_count']+=1
        spam_word_count+=1
    else:
        words[word]['ham_count']+=1
        ham_word_count+=1
    #store email data
    emails[email]['words'].append(word)

```

```

    emails[email]['word_count']+=1

#Calculate stats for entire corpus
prior_spam=spam_email_count/len(emails)
prior_ham=1-prior_spam
vocab_count=len(words)#number of unique words in the total vocabulary
spam_zero_prob_count = 0 #count of number of zero probability words
for all spam emails
ham_zero_prob_count = 0 #count of number of zero probability words
for all spam emails

for k,word in words.iteritems():
    #Compute conditional probabilities WITHOUT Laplace smoothing
    word['p_spam']=(word['spam_count'])/(spam_word_count)
    if word['p_spam']==0: spam_zero_prob_count+=1
    word['p_ham']=(word['ham_count'])/(ham_word_count)
    if word['p_ham']==0: ham_zero_prob_count+=1

correct_predictions = 0
incorrect_predictions = 0
spam_log_posterior_probabilities = [] #keep list of p_spam probabilities for histogram
ham_log_posterior_probabilities = [] #keep list of p_ham probabilities for histogram

#At this point the model is now trained, and we can use it to make our predictions
for j,email in emails.iteritems():
    p_spam=log(prior_spam) #log of prior_spam
    p_ham=log(prior_ham) #log of prior_ham
    for word in email['words']:
        if words[word]['p_spam'] != 0 and words[word]['p_ham'] != 0: #exclude conditional probabilities for any word where count = 0 for either classification
            try:
                p_spam+=log(words[word]['p_spam']) #log version calculation of p_spam
            except ValueError:
                continue #This means that words that do not appear in a class will use the class prior
            try:
                p_ham+=log(words[word]['p_ham']) #log version calculation of p_ham
            except ValueError:
                continue
        if p_spam>p_ham: #predict class
            spam_pred=1
        else:
            spam_pred=0
    spam_log_posterior_probabilities.append(p_spam)
    ham_log_posterior_probabilities.append(p_ham)
    print j+'\t'+str(email['spam'])+'\t'+str(spam_pred) #emit true class and class predictions for email

```

```

        if str(email['spam']) == str(spam_pred): correct_predictions+=1
#count correct predictions
        else: incorrect_predictions+=1 #count incorrect predictions

print "error rate"+"\t"+str(incorrect_predictions/(incorrect_predictions+correct_predictions))
print "spam zero probability count"+"\t"+str(spam_zero_prob_count)
print "ham zero probability count"+"\t"+str(ham_zero_prob_count)
print "spam_log_posterior_probabilities"+"\t"+str(spam_log_posterior_probabilities)
print "ham_log_posterior_probabilities"+"\t"+str(ham_log_posterior_probabilities)

```

Overwriting reducer.py

```

In [19]: %%writefile mapreduce.sh
## mapreduce.sh
## Author: Jing Xu
## Description: mapreduce bash script for HW2.2

hdfs dfs -mkdir /user #create hdfs folder
wait
hdfs dfs -mkdir /user/jing #create hdfs folder
wait
hadoop fs -put enronemail_1h.txt /user/jing #upload local file to hdfs folder
wait

#hadoop streaming mapreduce command
hadoop jar /Users/JingXu/Documents/hadoop-2.6.3/share/hadoop/tools/lib/hadoop-streaming-2.6.3.jar \
-file mapper.py -mapper mapper.py \
-file reducer.py -reducer reducer.py \
-input /user/jing/* -output /user/jing/test-output1/

hadoop fs -get /user/jing/test-output1/part-00000 hw2-3results #download hw2-3results to local
wait

hdfs dfs -rmr /user/jing #remove hdfs folder
hdfs dfs -rmr /user #remove hdfs folder
#rm hw2-3results #delete results

```

Overwriting mapreduce.sh

In [20]: `!./mapreduce.sh`

```
16/01/26 06:10:53 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:10:55 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:10:56 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:10:58 WARN streaming.StreamJob: -file option is deprecated, please use generic option -files instead.
16/01/26 06:10:58 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
packageJobJar: [mapper.py, reducer.py] [] /var/folders/zs/k144hqks281fbt0x68c_zj9m0000gp/T/streamjob1251397735310934822.jar tmpDir=null
16/01/26 06:10:58 INFO Configuration.deprecation: session.id is deprecated. Instead, use dfs.metrics.session-id
16/01/26 06:10:58 INFO jvm.JvmMetrics: Initializing JVM Metrics with processName=JobTracker, sessionId=
16/01/26 06:10:58 INFO jvm.JvmMetrics: Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
16/01/26 06:10:59 INFO mapred.FileInputFormat: Total input paths to process : 1
16/01/26 06:10:59 INFO mapreduce.JobSubmitter: number of splits:1
16/01/26 06:10:59 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_local1831891541_0001
16/01/26 06:10:59 INFO mapred.LocalDistributedCacheManager: Localized file:/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/mapper.py as file:/tmp/hadoop-JingXu/mapred/local/1453817459590/mapper.py
16/01/26 06:10:59 INFO mapred.LocalDistributedCacheManager: Localized file:/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/reducer.py as file:/tmp/hadoop-JingXu/mapred/local/1453817459591/reducer.py
16/01/26 06:10:59 INFO mapreduce.Job: The url to track the job: http://localhost:8080/
16/01/26 06:10:59 INFO mapred.LocalJobRunner: OutputCommitter set in config null
16/01/26 06:10:59 INFO mapreduce.Job: Running job: job_local1831891541_0001
16/01/26 06:10:59 INFO mapred.LocalJobRunner: OutputCommitter is org.apache.hadoop.mapred.FileOutputCommitter
16/01/26 06:10:59 INFO mapred.LocalJobRunner: Waiting for map tasks
16/01/26 06:10:59 INFO mapred.LocalJobRunner: Starting task: attempt_local1831891541_0001_m_000000_0
16/01/26 06:10:59 INFO util.ProcfsBasedProcessTree: ProcfsBasedProcessTree currently is supported only on Linux.
16/01/26 06:10:59 INFO mapred.Task: Using ResourceCalculatorProcessTree : null
16/01/26 06:10:59 INFO mapred.MapTask: Processing split: hdfs://localhost:9000/user/jing/enronemail_1h.txt:0+203981
16/01/26 06:10:59 INFO mapred.MapTask: numReduceTasks: 1
```

```
16/01/26 06:10:59 INFO mapred.MapTask: (EQUATOR) 0 kvi 26214396(10
4857584)
16/01/26 06:10:59 INFO mapred.MapTask: mapreduce.task.io.sort.mb:
100
16/01/26 06:10:59 INFO mapred.MapTask: soft limit at 83886080
16/01/26 06:10:59 INFO mapred.MapTask: bufstart = 0; bufvoid = 104
857600
16/01/26 06:10:59 INFO mapred.MapTask: kvstart = 26214396; length
= 6553600
16/01/26 06:10:59 INFO mapred.MapTask: Map output collector class
= org.apache.hadoop.mapred.MapTask$MapOutputBuffer
16/01/26 06:10:59 INFO streaming.PipeMapRed: PipeMapRed exec [/Use
rs/JingXu/Dropbox/DataScience/W261/w261/HW2/./mapper.py]
16/01/26 06:10:59 INFO Configuration.deprecation: mapred.task.id i
s deprecated. Instead, use mapreduce.task.attempt.id
16/01/26 06:10:59 INFO Configuration.deprecation: user.name is dep
recated. Instead, use mapreduce.job.user.name
16/01/26 06:10:59 INFO Configuration.deprecation: map.input.start
is deprecated. Instead, use mapreduce.map.input.start
16/01/26 06:10:59 INFO Configuration.deprecation: mapred.task.is.m
ap is deprecated. Instead, use mapreduce.task.ismap
16/01/26 06:10:59 INFO Configuration.deprecation: mapred.tip.id is
deprecated. Instead, use mapreduce.task.id
16/01/26 06:10:59 INFO Configuration.deprecation: mapred.skip.on i
s deprecated. Instead, use mapreduce.job.skiprecords
16/01/26 06:10:59 INFO Configuration.deprecation: mapred.task.part
ition is deprecated. Instead, use mapreduce.task.partition
16/01/26 06:10:59 INFO Configuration.deprecation: map.input.length
is deprecated. Instead, use mapreduce.map.input.length
16/01/26 06:10:59 INFO Configuration.deprecation: mapred.local.dir
is deprecated. Instead, use mapreduce.cluster.local.dir
16/01/26 06:10:59 INFO Configuration.deprecation: mapred.work.outp
ut.dir is deprecated. Instead, use mapreduce.task.output.dir
16/01/26 06:10:59 INFO Configuration.deprecation: map.input.file i
s deprecated. Instead, use mapreduce.map.input.file
16/01/26 06:10:59 INFO Configuration.deprecation: mapred.job.id is
deprecated. Instead, use mapreduce.job.id
16/01/26 06:11:00 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [re
c/s] out:NA [rec/s]
16/01/26 06:11:00 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [r
ec/s] out:NA [rec/s]
16/01/26 06:11:00 INFO streaming.PipeMapRed: Records R/W=73/1
16/01/26 06:11:00 INFO streaming.PipeMapRed: R/W/S=100/3455/0 in:N
A [rec/s] out:NA [rec/s]
16/01/26 06:11:00 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:11:00 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:11:00 INFO mapred.LocalJobRunner:
16/01/26 06:11:00 INFO mapred.MapTask: Starting flush of map outpu
t
16/01/26 06:11:00 INFO mapred.MapTask: Spilling map output
16/01/26 06:11:00 INFO mapred.MapTask: bufstart = 0; bufend = 1000
058; bufvoid = 104857600
16/01/26 06:11:00 INFO mapred.MapTask: kvstart = 26214396(10485758
4); kvend = 26086780(104347120); length = 127617/6553600
```



```
16/01/26 06:11:00 INFO mapred.MapTask: Finished spill 0
16/01/26 06:11:00 INFO mapred.Task: Task:attempt_local1831891541_0
001_m_000000_0 is done. And is in the process of committing
16/01/26 06:11:00 INFO mapred.LocalJobRunner: Records R/W=73/1
16/01/26 06:11:00 INFO mapred.Task: Task 'attempt_local183189154
1_0001_m_000000_0' done.
16/01/26 06:11:00 INFO mapred.LocalJobRunner: Finishing task: atte
mpt_local1831891541_0001_m_000000_0
16/01/26 06:11:00 INFO mapred.LocalJobRunner: map task executor co
mplete.
16/01/26 06:11:00 INFO mapred.LocalJobRunner: Waiting for reduce t
asks
16/01/26 06:11:00 INFO mapred.LocalJobRunner: Starting task: attem
pt_local1831891541_0001_r_000000_0
16/01/26 06:11:00 INFO util.ProcfsBasedProcessTree: ProcfsBasedPro
cessTree currently is supported only on Linux.
16/01/26 06:11:00 INFO mapred.Task: Using ResourceCalculatorProce
ssTree : null
16/01/26 06:11:00 INFO mapred.ReduceTask: Using ShuffleConsumerPlu
gin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@658b4dc0
16/01/26 06:11:00 INFO reduce.MergeManagerImpl: MergerManager: mem
oryLimit=333971456, maxSingleShuffleLimit=83492864, mergeThreshol
d=220421168, ioSortFactor=10, memToMemMergeOutputsThreshold=10
16/01/26 06:11:00 INFO reduce.EventFetcher: attempt_local183189154
1_0001_r_000000_0 Thread started: EventFetcher for fetching Map Co
mpletion Events
16/01/26 06:11:00 INFO reduce.LocalFetcher: localfetcher#1 about t
o shuffle output of map attempt_local1831891541_0001_m_000000_0 de
comp: 1063870 len: 1063874 to MEMORY
16/01/26 06:11:00 INFO reduce.InMemoryMapOutput: Read 1063870 byte
s from map-output for attempt_local1831891541_0001_m_000000_0
16/01/26 06:11:00 INFO reduce.MergeManagerImpl: closeInMemoryFile
-> map-output of size: 1063870, inMemoryMapOutputs.size() -> 1, co
mmitMemory -> 0, usedMemory ->1063870
16/01/26 06:11:00 INFO reduce.EventFetcher: EventFetcher is interr
upted.. Returning
16/01/26 06:11:00 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:11:00 INFO reduce.MergeManagerImpl: finalMerge called
with 1 in-memory map-outputs and 0 on-disk map-outputs
16/01/26 06:11:00 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:11:00 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 1063845 bytes
16/01/26 06:11:00 INFO reduce.MergeManagerImpl: Merged 1 segments,
1063870 bytes to disk to satisfy reduce memory limit
16/01/26 06:11:00 INFO reduce.MergeManagerImpl: Merging 1 files, 1
063874 bytes from disk
16/01/26 06:11:00 INFO reduce.MergeManagerImpl: Merging 0 segment
s, 0 bytes from memory into reduce
16/01/26 06:11:00 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:11:00 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 1063845 bytes
16/01/26 06:11:00 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:11:00 INFO streaming.PipeMapRed: PipeMapRed exec [/Use
rs/JingXu/Dropbox/DataScience/W261/w261/HW2/./reducer.py]
```

```
16/01/26 06:11:00 INFO Configuration.deprecation: mapred.job.track
er is deprecated. Instead, use mapreduce.jobtracker.address
16/01/26 06:11:00 INFO Configuration.deprecation: mapred.map.tasks
is deprecated. Instead, use mapreduce.job.maps
16/01/26 06:11:00 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [re
c/s] out:NA [rec/s]
16/01/26 06:11:00 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [r
ec/s] out:NA [rec/s]
16/01/26 06:11:00 INFO streaming.PipeMapRed: R/W/S=100/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:11:00 INFO streaming.PipeMapRed: R/W/S=1000/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:11:00 INFO streaming.PipeMapRed: R/W/S=10000/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:11:00 INFO mapreduce.Job: Job job_local1831891541_0001
running in uber mode : false
16/01/26 06:11:00 INFO mapreduce.Job: map 100% reduce 0%
16/01/26 06:11:02 INFO streaming.PipeMapRed: Records R/W=31905/1
16/01/26 06:11:02 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:11:02 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:11:02 INFO mapred.Task: Task:attempt_local1831891541_0
001_r_000000_0 is done. And is in the process of committing
16/01/26 06:11:02 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:11:02 INFO mapred.Task: Task attempt_local1831891541_0
001_r_000000_0 is allowed to commit now
16/01/26 06:11:02 INFO output.FileOutputCommitter: Saved output of
task 'attempt_local1831891541_0001_r_000000_0' to hdfs://localhos
t:9000/user/jing/test-output1/_temporary/0/task_local1831891541_00
01_r_000000
16/01/26 06:11:02 INFO mapred.LocalJobRunner: Records R/W=31905/1
> reduce
16/01/26 06:11:02 INFO mapred.Task: Task 'attempt_local183189154
1_0001_r_000000_0' done.
16/01/26 06:11:02 INFO mapred.LocalJobRunner: Finishing task: atte
mpt_local1831891541_0001_r_000000_0
16/01/26 06:11:02 INFO mapred.LocalJobRunner: reduce task executor
complete.
16/01/26 06:11:02 INFO mapreduce.Job: map 100% reduce 100%
16/01/26 06:11:02 INFO mapreduce.Job: Job job_local1831891541_0001
completed successfully
16/01/26 06:11:02 INFO mapreduce.Job: Counters: 35
```

File System Counters

```
FILE: Number of bytes read=2145500
FILE: Number of bytes written=3730284
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=407962
HDFS: Number of bytes written=6764
HDFS: Number of read operations=15
HDFS: Number of large read operations=0
HDFS: Number of write operations=4
```

Map-Reduce Framework

```
Map input records=101
```

```

Map output records=31905
Map output bytes=1000058
Map output materialized bytes=1063874
Input split bytes=101
Combine input records=0
Combine output records=0
Reduce input groups=98
Reduce shuffle bytes=1063874
Reduce input records=31905
Reduce output records=103
Spilled Records=63810
Shuffled Maps =1
Failed Shuffles=0
Merged Map outputs=1
GC time elapsed (ms)=9
Total committed heap usage (bytes)=582483968
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=203981
File Output Format Counters
  Bytes Written=6764
16/01/26 06:11:02 INFO streaming.StreamJob: Output directory: /user/jing/test-output1/
16/01/26 06:11:03 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
get: `hw2-3results': File exists
rmr: DEPRECATED: Please use 'rm -r' instead.
16/01/26 06:11:05 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:11:05 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Empty interval = 0 minutes.
Deleted /user/jing
rmr: DEPRECATED: Please use 'rm -r' instead.
16/01/26 06:11:06 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:11:07 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Empty interval = 0 minutes.
Deleted /user

```

```
In [21]: %matplotlib inline
```

```

In [22]: import matplotlib.pyplot as plt #

#read results of mapreduce job
results = open('hw2-3results', "r")

spam_log_posterior_probabilities = [] #keep list of p_spam probabilities for histogram
ham_log_posterior_probabilities = [] #keep list of p_ham probabilities for histogram

sp = []
hp = []

for line in results.readlines():
    result=line.split("\t")
    if result[0] == 'error rate':
        print 'error rate:', result[1]
    elif result[0] == 'spam zero probability count':
        print 'spam zero probability count:', result[1]
    elif result[0] == 'ham zero probability count':
        print 'ham zero probability count:', result[1]
    elif result[0] == 'spam_log_posterior_probabilities':
        spam_log_posterior_probabilities = result[1]
    elif result[0] == 'ham_log_posterior_probabilities':
        ham_log_posterior_probabilities = result[1]

spam_log_posterior_probabilities = spam_log_posterior_probabilities.strip()
spam_log_posterior_probabilities = spam_log_posterior_probabilities.strip('[')
spam_log_posterior_probabilities = spam_log_posterior_probabilities.strip(']')
spam_log_posterior_probabilities = spam_log_posterior_probabilities.split(',')
for value in spam_log_posterior_probabilities:
    sp.append(float(value))
ham_log_posterior_probabilities = ham_log_posterior_probabilities.strip()
ham_log_posterior_probabilities = ham_log_posterior_probabilities.strip('[')
ham_log_posterior_probabilities = ham_log_posterior_probabilities.strip(']')
ham_log_posterior_probabilities = ham_log_posterior_probabilities.split(',')
for value in ham_log_posterior_probabilities:
    hp.append(float(value))

plt.hist(sp, bins=100)
plt.title("Spam Posterior Probabilities Histogram")
plt.show()

plt.hist(hp, bins=100)
plt.title("Ham Posterior Probabilities Histogram")

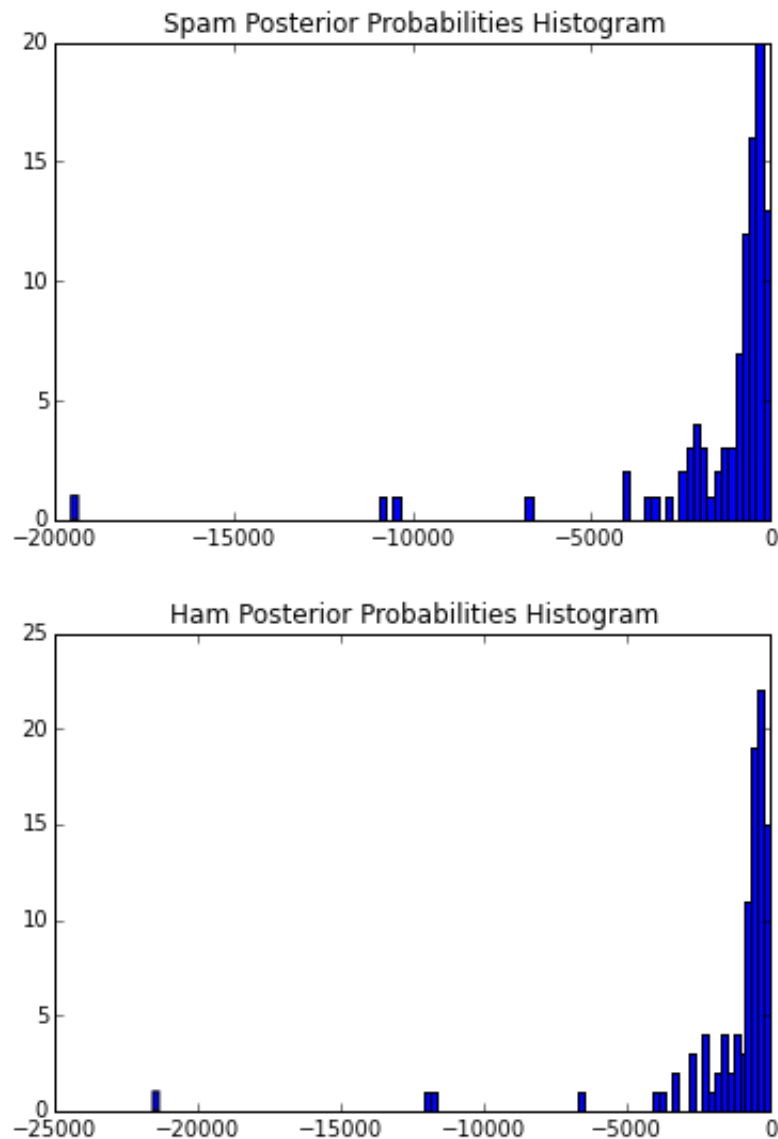
```

```
plt.show()
```

```
error rate: 0.102040816327
```

```
spam zero probability count: 1674
```

```
ham zero probability count: 2727
```



The histogram for both spam and ham displays heavy skew towards 0 with a few outlier cases.

HW2.4 Repeat HW2.3 with the following modification: use Laplace plus-one smoothing. Compare the misclassification error rates for 2.3 versus 2.4 and explain the differences.

```
In [23]: %%writefile mapper.py
#!/usr/bin/python
#HW 2.4 - Mapper function
#This mapper function will send one line for every instance of every word to the reducer. This approach, while easier to write and debug, is unlikely to be the best choice for a larger scale implementation because of the large volume of data that would have to be sent to the reducers. A potentially more-streamlined alternative would be to add a "combiner" step at the end of the mapper that would send one line for each word-email combination (E.G. Key:email-word-flag, Value:count).
#In addition, if we only care about generating the conditional probabilities for each word and don't need to classify all the training emails, we could simplify the implementation even more and not send the email contents themselves to the reducer. Not only would this decrease throughput, but it would also dramatically reduce the amount of information that the reducer would need to store in memory. In this situation, our mapper could simply emit words along with their conditional class counts. I have not implemented this in this homework, but we'll want to keep this in mind for the future.

import sys
import re

WORD_RE = re.compile(r"[\w']+") #Compile regex to easily parse complete words

for line in sys.stdin:
    fields=line.split('\t') #parse line into separate fields
    if len(fields) == 4: #check if email data formatted correctly
        subject_and_body=" ".join(fields[-2:]).strip()#parse the subject and body fields from the line, and combine into one string
        words=re.findall(WORD_RE,subject_and_body) #create list of words
        for word in words:
            #This will send one row for every word instance to the reducer.
            print fields[0]+'\\t'+fields[1]+'\\t'+word
```

Overwriting mapper.py

```

In [24]: %%writefile reducer.py
#!/usr/bin/python
#HW 2.4 - Reducer function
#The reducer maintains two associative arrays.
#The first stores information about each word, including how
#many times it appears in spam and ham messages, as well as if it's
#been flagged in the mapper.
#The second stores information about emails, including whether it
#is marked as spam, as well as a list of
#words it contains.
#Once all the data has arrived from the mappers, the array containi
ng words is updated with the calculated
#conditional probabilities of spam and ham. At this point, the mode
l is "trained". Finally, these
#conditional probabilities are reapplied to the word lists associat
ed with each email to make the
#final spam/ham classification as an output file. There is also a c
ount for each zero probability calculation
#for each class.

from __future__ import division #Python 3-style division syntax is
much cleaner
import sys
from math import log

words={}
emails={}
spam_email_count=0 #number of emails marked as spam
spam_word_count=0 #number of total (not unique) words in spam email
s
ham_word_count=0 #number of total (not unique) words in ham emails
for line in sys.stdin:
    #parse the incoming line
    result=line.split("\t")
    email=result[0]
    spam=int(result[1])
    word=result[2]
    #initialize storage for word/email data
    if word not in words.keys():
        words[word]={'ham_count':0,'spam_count':0}
    if email not in emails.keys():
        emails[email]={'spam':spam,'word_count':0,'words':[]}
        if spam==1:
            spam_email_count+=1
    #store word data
    if spam==1:
        words[word]['spam_count']+=1
        spam_word_count+=1
    else:
        words[word]['ham_count']+=1
        ham_word_count+=1
    #store email data
    emails[email]['words'].append(word)

```

```

        emails[email]['word_count']+=1

#Calculate stats for entire corpus
prior_spam=spam_email_count/len(emails)
prior_ham=1-prior_spam
vocab_count=len(words)#number of unique words in the total vocabulary
spam_zero_prob_count = 0 #count of number of zero probability words
for all spam emails
ham_zero_prob_count = 0 #count of number of zero probability words
for all spam emails

for k,word in words.iteritems():
    #Compute conditional probabilities WITH Laplace smoothing
    word['p_spam']=(word['spam_count']+1)/(spam_word_count+vocab_count) #add 1 to numerator, vocab_count to denominator
    if word['p_spam']==0: spam_zero_prob_count+=1
    word['p_ham']=(word['ham_count']+1)/(ham_word_count+vocab_count) #add 1 to numerator, vocab_count to denominator
    if word['p_ham']==0: ham_zero_prob_count+=1

correct_predictions = 0
incorrect_predictions = 0
spam_log_posterior_probabilities = [] #keep list of p_spam probabilities for histogram
ham_log_posterior_probabilities = [] #keep list of p_ham probabilities for histogram

#At this point the model is now trained, and we can use it to make our predictions
for j,email in emails.iteritems():
    p_spam=log(prior_spam) #log of prior_spam
    p_ham=log(prior_ham) #log of prior_ham
    for word in email['words']:
        if words[word]['spam_count'] != 0 and words[word]['ham_count'] != 0: #exclude conditional probabilities for any word where count = 0 for either classification
            try:
                p_spam+=log(words[word]['p_spam']) #log version calculation of p_spam
            except ValueError:
                continue #This means that words that do not appear in a class will use the class prior
            try:
                p_ham+=log(words[word]['p_ham']) #log version calculation of p_ham
            except ValueError:
                continue
        if p_spam>p_ham: #predict class
            spam_pred=1
        else:
            spam_pred=0
    spam_log_posterior_probabilities.append(p_spam)
    ham_log_posterior_probabilities.append(p_ham)

```



```

    print j+'\t'+str(email['spam'])+'\t'+str(spam_pred) #emit true
class and class predictions for email
    if str(email['spam']) == str(spam_pred): correct_predictions+=1
#count correct predictions
    else: incorrect_predictions+=1 #count incorrect predictions

print "error rate"+'\t'+str(incorrect_predictions/(incorrect_predictions+correct_predictions))
print "spam zero probability count"+'\t'+str(spam_zero_prob_count)
print "ham zero probability count"+'\t'+str(ham_zero_prob_count)
print "spam_log_posterior_probabilities"+'\t'+str(spam_log_posterior_probabilities)
print "ham_log_posterior_probabilities"+'\t'+str(ham_log_posterior_probabilities)

```

Overwriting reducer.py

```

In [25]: %%writefile mapreduce.sh
## mapreduce.sh
## Author: Jing Xu
## Description: mapreduce bash script for HW2.2

hdfs dfs -mkdir /user #create hdfs folder
wait
hdfs dfs -mkdir /user/jing #create hdfs folder
wait
hadoop fs -put enronemail_1h.txt /user/jing #upload local file to hdfs folder
wait

#hadoop streaming mapreduce command
hadoop jar /Users/JingXu/Documents/hadoop-2.6.3/share/hadoop/tools/lib/hadoop-streaming-2.6.3.jar \
-file mapper.py -mapper mapper.py \
-file reducer.py -reducer reducer.py \
-input /user/jing/* -output /user/jing/test-output1/

hadoop fs -get /user/jing/test-output1/part-00000 hw2-4results #download hw2-4results to local
wait

hdfs dfs -rmr /user/jing #remove hdfs folder
hdfs dfs -rmr /user #remove hdfs folder

```

Overwriting mapreduce.sh

```
In [26]: !./mapreduce.sh
```

```
16/01/26 06:11:31 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:11:32 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:11:34 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:11:35 WARN streaming.StreamJob: -file option is deprecated, please use generic option -files instead.
16/01/26 06:11:35 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
packageJobJar: [mapper.py, reducer.py] [] /var/folders/zs/k144hqks281fbt0x68c_zj9m0000gp/T/streamjob8513532285535704350.jar tmpDir=null
16/01/26 06:11:36 INFO Configuration.deprecation: session.id is deprecated. Instead, use dfs.metrics.session-id
16/01/26 06:11:36 INFO jvm.JvmMetrics: Initializing JVM Metrics with processName=JobTracker, sessionId=
16/01/26 06:11:36 INFO jvm.JvmMetrics: Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
16/01/26 06:11:36 INFO mapred.FileInputFormat: Total input paths to process : 1
16/01/26 06:11:36 INFO mapreduce.JobSubmitter: number of splits:1
16/01/26 06:11:37 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_local209985004_0001
16/01/26 06:11:37 INFO mapred.LocalDistributedCacheManager: Localized file:/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/mapper.py as file:/tmp/hadoop-JingXu/mapred/local/1453817497219/mapper.py
16/01/26 06:11:37 INFO mapred.LocalDistributedCacheManager: Localized file:/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/reducer.py as file:/tmp/hadoop-JingXu/mapred/local/1453817497220/reducer.py
16/01/26 06:11:37 INFO mapreduce.Job: The url to track the job: http://localhost:8080/
16/01/26 06:11:37 INFO mapred.LocalJobRunner: OutputCommitter set in config null
16/01/26 06:11:37 INFO mapreduce.Job: Running job: job_local209985004_0001
16/01/26 06:11:37 INFO mapred.LocalJobRunner: OutputCommitter is org.apache.hadoop.mapred.FileOutputCommitter
16/01/26 06:11:37 INFO mapred.LocalJobRunner: Waiting for map tasks
16/01/26 06:11:37 INFO mapred.LocalJobRunner: Starting task: attempt_local209985004_0001_m_000000_0
16/01/26 06:11:37 INFO util.ProcfsBasedProcessTree: ProcfsBasedProcessTree currently is supported only on Linux.
16/01/26 06:11:37 INFO mapred.Task: Using ResourceCalculatorProcessTree : null
16/01/26 06:11:37 INFO mapred.MapTask: Processing split: hdfs://localhost:9000/user/jing/enronemail_1h.txt:0+203981
16/01/26 06:11:37 INFO mapred.MapTask: numReduceTasks: 1
```

```
16/01/26 06:11:37 INFO mapred.MapTask: (EQUATOR) 0 kvi 26214396(10
4857584)
16/01/26 06:11:37 INFO mapred.MapTask: mapreduce.task.io.sort.mb:
100
16/01/26 06:11:37 INFO mapred.MapTask: soft limit at 83886080
16/01/26 06:11:37 INFO mapred.MapTask: bufstart = 0; bufvoid = 104
857600
16/01/26 06:11:37 INFO mapred.MapTask: kvstart = 26214396; length
= 6553600
16/01/26 06:11:37 INFO mapred.MapTask: Map output collector class
= org.apache.hadoop.mapred.MapTask$MapOutputBuffer
16/01/26 06:11:37 INFO streaming.PipeMapRed: PipeMapRed exec [/Use
rs/JingXu/Dropbox/DataScience/W261/w261/HW2/./mapper.py]
16/01/26 06:11:37 INFO Configuration.deprecation: mapred.task.id i
s deprecated. Instead, use mapreduce.task.attempt.id
16/01/26 06:11:37 INFO Configuration.deprecation: user.name is dep
recated. Instead, use mapreduce.job.user.name
16/01/26 06:11:37 INFO Configuration.deprecation: map.input.start
is deprecated. Instead, use mapreduce.map.input.start
16/01/26 06:11:37 INFO Configuration.deprecation: mapred.task.is.m
ap is deprecated. Instead, use mapreduce.task.ismap
16/01/26 06:11:37 INFO Configuration.deprecation: mapred.tip.id is
deprecated. Instead, use mapreduce.task.id
16/01/26 06:11:37 INFO Configuration.deprecation: mapred.skip.on i
s deprecated. Instead, use mapreduce.job.skiprecords
16/01/26 06:11:37 INFO Configuration.deprecation: mapred.task.part
ition is deprecated. Instead, use mapreduce.task.partition
16/01/26 06:11:37 INFO Configuration.deprecation: map.input.length
is deprecated. Instead, use mapreduce.map.input.length
16/01/26 06:11:37 INFO Configuration.deprecation: mapred.local.dir
is deprecated. Instead, use mapreduce.cluster.local.dir
16/01/26 06:11:37 INFO Configuration.deprecation: mapred.work.outp
ut.dir is deprecated. Instead, use mapreduce.task.output.dir
16/01/26 06:11:37 INFO Configuration.deprecation: map.input.file i
s deprecated. Instead, use mapreduce.map.input.file
16/01/26 06:11:37 INFO Configuration.deprecation: mapred.job.id is
deprecated. Instead, use mapreduce.job.id
16/01/26 06:11:37 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [re
c/s] out:NA [rec/s]
16/01/26 06:11:37 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [r
ec/s] out:NA [rec/s]
16/01/26 06:11:37 INFO streaming.PipeMapRed: Records R/W=73/1
16/01/26 06:11:37 INFO streaming.PipeMapRed: R/W/S=100/3519/0 in:N
A [rec/s] out:NA [rec/s]
16/01/26 06:11:37 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:11:37 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:11:37 INFO mapred.LocalJobRunner:
16/01/26 06:11:37 INFO mapred.MapTask: Starting flush of map outpu
t
16/01/26 06:11:37 INFO mapred.MapTask: Spilling map output
16/01/26 06:11:37 INFO mapred.MapTask: bufstart = 0; bufend = 1000
058; bufvoid = 104857600
16/01/26 06:11:37 INFO mapred.MapTask: kvstart = 26214396(10485758
4); kvend = 26086780(104347120); length = 127617/6553600
```

```
16/01/26 06:11:37 INFO mapred.MapTask: Finished spill 0
16/01/26 06:11:37 INFO mapred.Task: Task:attempt_local209985004_00
01_m_000000_0 is done. And is in the process of committing
16/01/26 06:11:37 INFO mapred.LocalJobRunner: Records R/W=73/1
16/01/26 06:11:37 INFO mapred.Task: Task 'attempt_local209985004_0
001_m_000000_0' done.
16/01/26 06:11:37 INFO mapred.LocalJobRunner: Finishing task: atte
mpt_local209985004_0001_m_000000_0
16/01/26 06:11:37 INFO mapred.LocalJobRunner: map task executor co
mplete.
16/01/26 06:11:37 INFO mapred.LocalJobRunner: Waiting for reduce t
asks
16/01/26 06:11:37 INFO mapred.LocalJobRunner: Starting task: attem
pt_local209985004_0001_r_000000_0
16/01/26 06:11:37 INFO util.ProcfsBasedProcessTree: ProcfsBasedPro
cessTree currently is supported only on Linux.
16/01/26 06:11:37 INFO mapred.Task: Using ResourceCalculatorProce
ssTree : null
16/01/26 06:11:37 INFO mapred.ReduceTask: Using ShuffleConsumerPlu
gin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@c4c1859
16/01/26 06:11:37 INFO reduce.MergeManagerImpl: MergerManager: mem
oryLimit=333971456, maxSingleShuffleLimit=83492864, mergeThreshol
d=220421168, ioSortFactor=10, memToMemMergeOutputsThreshold=10
16/01/26 06:11:37 INFO reduce.EventFetcher: attempt_local20998500
4_0001_r_000000_0 Thread started: EventFetcher for fetching Map Co
mpletion Events
16/01/26 06:11:38 INFO reduce.LocalFetcher: localfetcher#1 about t
o shuffle output of map attempt_local209985004_0001_m_000000_0 dec
omp: 1063870 len: 1063874 to MEMORY
16/01/26 06:11:38 INFO reduce.InMemoryMapOutput: Read 1063870 byte
s from map-output for attempt_local209985004_0001_m_000000_0
16/01/26 06:11:38 INFO reduce.MergeManagerImpl: closeInMemoryFile
-> map-output of size: 1063870, inMemoryMapOutputs.size() -> 1, co
mmitMemory -> 0, usedMemory ->1063870
16/01/26 06:11:38 INFO reduce.EventFetcher: EventFetcher is interr
upted.. Returning
16/01/26 06:11:38 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:11:38 INFO reduce.MergeManagerImpl: finalMerge called
with 1 in-memory map-outputs and 0 on-disk map-outputs
16/01/26 06:11:38 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:11:38 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 1063845 bytes
16/01/26 06:11:38 INFO reduce.MergeManagerImpl: Merged 1 segments,
1063870 bytes to disk to satisfy reduce memory limit
16/01/26 06:11:38 INFO reduce.MergeManagerImpl: Merging 1 files, 1
063874 bytes from disk
16/01/26 06:11:38 INFO reduce.MergeManagerImpl: Merging 0 segment
s, 0 bytes from memory into reduce
16/01/26 06:11:38 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:11:38 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 1063845 bytes
16/01/26 06:11:38 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:11:38 INFO streaming.PipeMapRed: PipeMapRed exec [/Use
rs/JingXu/Dropbox/DataScience/W261/w261/HW2/./reducer.py]
```

```
16/01/26 06:11:38 INFO Configuration.deprecation: mapred.job.track
er is deprecated. Instead, use mapreduce.jobtracker.address
16/01/26 06:11:38 INFO Configuration.deprecation: mapred.map.tasks
is deprecated. Instead, use mapreduce.job.maps
16/01/26 06:11:38 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [re
c/s] out:NA [rec/s]
16/01/26 06:11:38 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [r
ec/s] out:NA [rec/s]
16/01/26 06:11:38 INFO streaming.PipeMapRed: R/W/S=100/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:11:38 INFO streaming.PipeMapRed: R/W/S=1000/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:11:38 INFO streaming.PipeMapRed: R/W/S=10000/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:11:38 INFO mapreduce.Job: Job job_local209985004_0001
running in uber mode : false
16/01/26 06:11:38 INFO mapreduce.Job: map 100% reduce 0%
16/01/26 06:11:40 INFO streaming.PipeMapRed: Records R/W=31905/1
16/01/26 06:11:40 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:11:40 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:11:40 INFO mapred.Task: Task:attempt_local209985004_00
01_r_000000_0 is done. And is in the process of committing
16/01/26 06:11:40 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:11:40 INFO mapred.Task: Task attempt_local209985004_00
01_r_000000_0 is allowed to commit now
16/01/26 06:11:40 INFO output.FileOutputCommitter: Saved output of
task 'attempt_local209985004_0001_r_000000_0' to hdfs://localhos
t:9000/user/jing/test-output1/_temporary/0/task_local209985004_000
1_r_000000
16/01/26 06:11:40 INFO mapred.LocalJobRunner: Records R/W=31905/1
> reduce
16/01/26 06:11:40 INFO mapred.Task: Task 'attempt_local209985004_0
001_r_000000_0' done.
16/01/26 06:11:40 INFO mapred.LocalJobRunner: Finishing task: atte
mpt_local209985004_0001_r_000000_0
16/01/26 06:11:40 INFO mapred.LocalJobRunner: reduce task executor
complete.
16/01/26 06:11:41 INFO mapreduce.Job: map 100% reduce 100%
16/01/26 06:11:41 INFO mapreduce.Job: Job job_local209985004_0001
completed successfully
16/01/26 06:11:41 INFO mapreduce.Job: Counters: 35
    File System Counters
        FILE: Number of bytes read=2145804
        FILE: Number of bytes written=3727812
        FILE: Number of read operations=0
        FILE: Number of large read operations=0
        FILE: Number of write operations=0
        HDFS: Number of bytes read=407962
        HDFS: Number of bytes written=6754
        HDFS: Number of read operations=15
        HDFS: Number of large read operations=0
        HDFS: Number of write operations=4
    Map-Reduce Framework
        Map input records=101
```

```
Map output records=31905
Map output bytes=1000058
Map output materialized bytes=1063874
Input split bytes=101
Combine input records=0
Combine output records=0
Reduce input groups=98
Reduce shuffle bytes=1063874
Reduce input records=31905
Reduce output records=103
Spilled Records=63810
Shuffled Maps =1
Failed Shuffles=0
Merged Map outputs=1
GC time elapsed (ms)=10
Total committed heap usage (bytes)=582483968

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=203981
File Output Format Counters
  Bytes Written=6754
16/01/26 06:11:41 INFO streaming.StreamJob: Output directory: /user/jing/test-output1/
16/01/26 06:11:42 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
get: `hw2-4results': File exists
rmr: DEPRECATED: Please use 'rm -r' instead.
16/01/26 06:11:44 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:11:44 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Empty interval = 0 minutes.
Deleted /user/jing
rmr: DEPRECATED: Please use 'rm -r' instead.
16/01/26 06:11:45 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:11:46 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Empty interval = 0 minutes.
Deleted /user
```

```

In [27]: import matplotlib.pyplot as plt #

#read results of mapreduce job
results = open('hw2-4results', "r")

spam_log_posterior_probabilities = [] #keep list of p_spam probabilities for histogram
ham_log_posterior_probabilities = [] #keep list of p_ham probabilities for histogram

sp = []
hp = []

for line in results.readlines():
    result=line.split("\t")
    if result[0] == 'error rate':
        print 'error rate:', result[1]
    elif result[0] == 'spam zero probability count':
        print 'spam zero probability count:', result[1]
    elif result[0] == 'ham zero probability count':
        print 'ham zero probability count:', result[1]
    elif result[0] == 'spam_log_posterior_probabilities':
        spam_log_posterior_probabilities = result[1]
    elif result[0] == 'ham_log_posterior_probabilities':
        ham_log_posterior_probabilities = result[1]

spam_log_posterior_probabilities = spam_log_posterior_probabilities.strip()
spam_log_posterior_probabilities = spam_log_posterior_probabilities.strip('[')
spam_log_posterior_probabilities = spam_log_posterior_probabilities.strip(']')
spam_log_posterior_probabilities = spam_log_posterior_probabilities.split(',')
for value in spam_log_posterior_probabilities:
    sp.append(float(value))
ham_log_posterior_probabilities = ham_log_posterior_probabilities.strip()
ham_log_posterior_probabilities = ham_log_posterior_probabilities.strip('[')
ham_log_posterior_probabilities = ham_log_posterior_probabilities.strip(']')
ham_log_posterior_probabilities = ham_log_posterior_probabilities.split(',')
for value in ham_log_posterior_probabilities:
    hp.append(float(value))

plt.hist(sp, bins=100)
plt.title("Spam Posterior Probabilities Histogram")
plt.show()

plt.hist(hp, bins=100)
plt.title("Ham Posterior Probabilities Histogram")

```

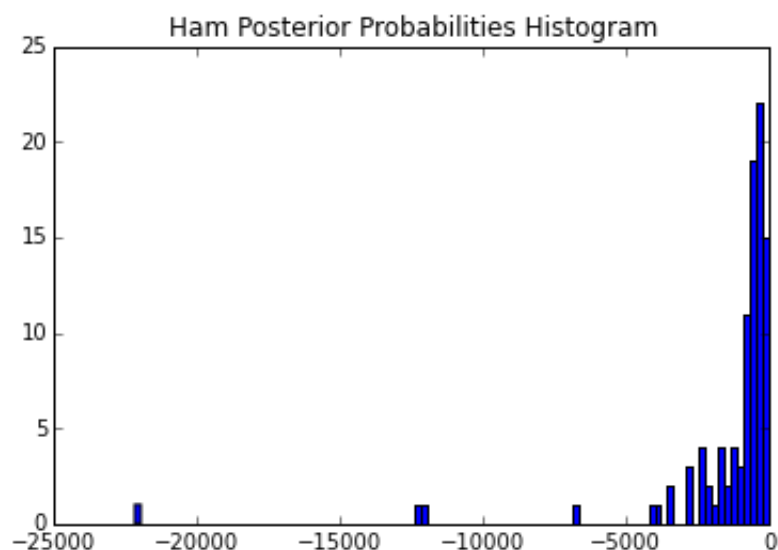
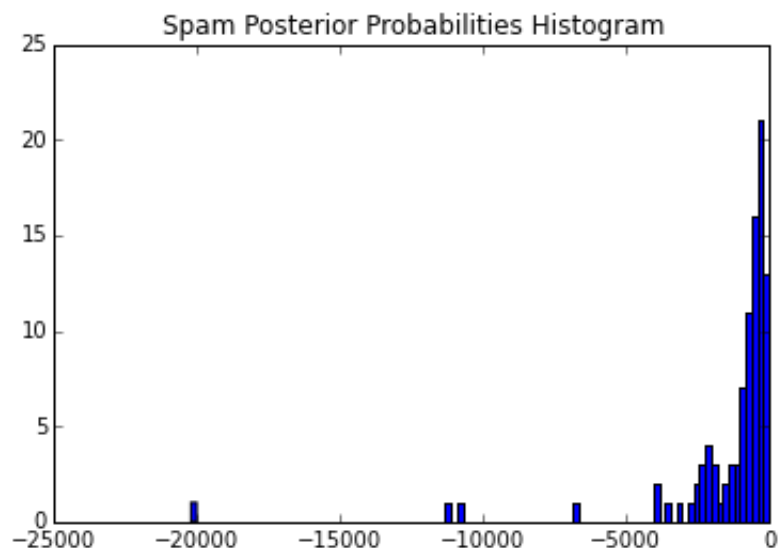


```
plt.show()
```

```
error rate: 0.122448979592
```

```
spam zero probability count: 0
```

```
ham zero probability count: 0
```



The misclassification error for HW2.4 is .122449, compared to .102041 for HW2.3. This is due to Laplace Smoothing being added to prevent overfitting - it is used to smooth categorical data, but also has the effect of increasing bias as shown here in the higher error rate.

HW2.5. Repeat HW2.4. This time when modeling and classification ignore tokens with a frequency of less than three (3) in the training set. How does it affect the misclassification error of learnt naive multinomial Bayesian Classifier on the training dataset:

```
In [28]: %%writefile mapper.py
#!/usr/bin/python
## mapper.py
## Author: Jing Xu
## Description: mapper count code for HW2.5. Generate a wordcount list
from the enron email dataset
## and filter out all strings with a count < 3.
import sys
import re

WORD_RE = re.compile(r"[\w']+") # compile regex to easily parse complete words

# input comes from STDIN (standard input)
for line in sys.stdin:
    fields=line.split('\t') # parse line into separate fields
    if len(fields) == 4: #check if email data formatted correctly
        subject_and_body=" ".join(fields[-2:]).strip()# parse the subject and body fields from the line, and combine into one string
        words=re.findall(WORD_RE,subject_and_body) # create list of words
        for word in words:
            print '%s\t%s' % (word, 1)
```

Overwriting mapper.py

```
In [29]: %%writefile reducer.py
#!/usr/bin/python
## reducer.py
## Author: Jing Xu
## Description: reducer code for HW2.5. Generate a wordcount list from the enron email dataset

from operator import itemgetter
import sys

current_word = None
current_count = 0
word = None

# input comes from STDIN
for line in sys.stdin:
    # remove leading and trailing whitespace
    line = line.strip()
    # parse the input we got from mapper.py
    word, count = line.split('\t', 1)
    # convert count (currently a string) to int
    try:
        count = int(count)
    except ValueError:
        # count was not a number, so silently
        # ignore/discard this line
        continue
    # this IF-switch only works because Hadoop sorts map output
    # by key (here: word) before it is passed to the reducer
    if current_word == word:
        current_count += count
    else:
        if current_word:
            # write result to STDOUT
            print '%s\t%s' % (current_word, current_count)
            current_count = count
            current_word = word

# do not forget to output the last word if needed!
if current_word == word:
    print '%s\t%s' % (current word, current count)
```

Overwriting reducer.py

```
In [30]: %%writefile mapreduce.sh
## mapreduce.sh
## Author: Jing Xu
## Description: mapreduce bash script for HW2.2

# Upload file to hdfs
hdfs dfs -mkdir /user #create hdfs folder
wait
hdfs dfs -mkdir /user/jing #create hdfs folder
wait
hadoop fs -put enronemail_1h.txt /user/jing #upload local file to h
dfs folder
wait

#hadoop command to run streaming mapreduce job
hadoop jar /Users/JingXu/Documents/hadoop-2.6.3/share/hadoop/tool
s/lib/hadoop-streaming-2.6.3.jar \
-file mapper.py -mapper mapper.py \
-file reducer.py -reducer reducer.py \
-input /user/jing/* -output /user/jing/test-output1/
wait

hadoop fs -get /user/jing/test-output1/part-00000 enron_word_count
wait

hdfs dfs -rmr /user/jing #remove hdfs folder
hdfs dfs -rmr /user #remove hdfs folder
```

Overwriting mapreduce.sh

In [31]: `!./mapreduce.sh`

```
16/01/26 06:12:03 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:12:04 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:12:06 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:12:07 WARN streaming.StreamJob: -file option is deprecated, please use generic option -files instead.
16/01/26 06:12:08 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
packageJobJar: [mapper.py, reducer.py] [] /var/folders/zs/k144hqks281fbt0x68c_zj9m0000gp/T/streamjob2092901860182321154.jar tmpDir=null
16/01/26 06:12:08 INFO Configuration.deprecation: session.id is deprecated. Instead, use dfs.metrics.session-id
16/01/26 06:12:08 INFO jvm.JvmMetrics: Initializing JVM Metrics with processName=JobTracker, sessionId=
16/01/26 06:12:08 INFO jvm.JvmMetrics: Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
16/01/26 06:12:09 INFO mapred.FileInputFormat: Total input paths to process : 1
16/01/26 06:12:09 INFO mapreduce.JobSubmitter: number of splits:1
16/01/26 06:12:09 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_local1086081655_0001
16/01/26 06:12:09 INFO mapred.LocalDistributedCacheManager: Localized file:/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/mapper.py as file:/tmp/hadoop-JingXu/mapred/local/1453817529387/mapper.py
16/01/26 06:12:09 INFO mapred.LocalDistributedCacheManager: Localized file:/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/reducer.py as file:/tmp/hadoop-JingXu/mapred/local/1453817529388/reducer.py
16/01/26 06:12:09 INFO mapreduce.Job: The url to track the job: http://localhost:8080/
16/01/26 06:12:09 INFO mapred.LocalJobRunner: OutputCommitter set in config null
16/01/26 06:12:09 INFO mapreduce.Job: Running job: job_local1086081655_0001
16/01/26 06:12:09 INFO mapred.LocalJobRunner: OutputCommitter is org.apache.hadoop.mapred.FileOutputCommitter
16/01/26 06:12:09 INFO mapred.LocalJobRunner: Waiting for map tasks
16/01/26 06:12:09 INFO mapred.LocalJobRunner: Starting task: attempt_local1086081655_0001_m_000000_0
16/01/26 06:12:09 INFO util.ProcfsBasedProcessTree: ProcfsBasedProcessTree currently is supported only on Linux.
16/01/26 06:12:09 INFO mapred.Task: Using ResourceCalculatorProcessTree : null
16/01/26 06:12:09 INFO mapred.MapTask: Processing split: hdfs://localhost:9000/user/jing/enronemail_1h.txt:0+203981
16/01/26 06:12:09 INFO mapred.MapTask: numReduceTasks: 1
```

```
16/01/26 06:12:09 INFO mapred.MapTask: (EQUATOR) 0 kvi 26214396(10
4857584)
16/01/26 06:12:09 INFO mapred.MapTask: mapreduce.task.io.sort.mb:
100
16/01/26 06:12:09 INFO mapred.MapTask: soft limit at 83886080
16/01/26 06:12:09 INFO mapred.MapTask: bufstart = 0; bufvoid = 104
857600
16/01/26 06:12:09 INFO mapred.MapTask: kvstart = 26214396; length
= 6553600
16/01/26 06:12:09 INFO mapred.MapTask: Map output collector class
= org.apache.hadoop.mapred.MapTask$MapOutputBuffer
16/01/26 06:12:09 INFO streaming.PipeMapRed: PipeMapRed exec [/Use
rs/JingXu/Dropbox/DataScience/W261/w261/HW2/./mapper.py]
16/01/26 06:12:09 INFO Configuration.deprecation: mapred.task.id i
s deprecated. Instead, use mapreduce.task.attempt.id
16/01/26 06:12:09 INFO Configuration.deprecation: user.name is dep
recated. Instead, use mapreduce.job.user.name
16/01/26 06:12:09 INFO Configuration.deprecation: map.input.start
is deprecated. Instead, use mapreduce.map.input.start
16/01/26 06:12:09 INFO Configuration.deprecation: mapred.task.is.m
ap is deprecated. Instead, use mapreduce.task.ismap
16/01/26 06:12:09 INFO Configuration.deprecation: mapred.tip.id is
deprecated. Instead, use mapreduce.task.id
16/01/26 06:12:09 INFO Configuration.deprecation: mapred.skip.on i
s deprecated. Instead, use mapreduce.job.skiprecords
16/01/26 06:12:09 INFO Configuration.deprecation: mapred.task.part
ition is deprecated. Instead, use mapreduce.task.partition
16/01/26 06:12:09 INFO Configuration.deprecation: map.input.length
is deprecated. Instead, use mapreduce.map.input.length
16/01/26 06:12:09 INFO Configuration.deprecation: mapred.local.dir
is deprecated. Instead, use mapreduce.cluster.local.dir
16/01/26 06:12:09 INFO Configuration.deprecation: mapred.work.outp
ut.dir is deprecated. Instead, use mapreduce.task.output.dir
16/01/26 06:12:09 INFO Configuration.deprecation: map.input.file i
s deprecated. Instead, use mapreduce.map.input.file
16/01/26 06:12:09 INFO Configuration.deprecation: mapred.job.id is
deprecated. Instead, use mapreduce.job.id
16/01/26 06:12:09 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [re
c/s] out:NA [rec/s]
16/01/26 06:12:09 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [r
ec/s] out:NA [rec/s]
16/01/26 06:12:09 INFO streaming.PipeMapRed: Records R/W=73/1
16/01/26 06:12:09 INFO streaming.PipeMapRed: R/W/S=100/555/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:12:09 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:12:09 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:12:09 INFO mapred.LocalJobRunner:
16/01/26 06:12:09 INFO mapred.MapTask: Starting flush of map outpu
t
16/01/26 06:12:09 INFO mapred.MapTask: Spilling map output
16/01/26 06:12:09 INFO mapred.MapTask: bufstart = 0; bufend = 2442
29; bufvoid = 104857600
16/01/26 06:12:09 INFO mapred.MapTask: kvstart = 26214396(10485758
4); kvend = 26086780(104347120); length = 127617/6553600
```

```
16/01/26 06:12:10 INFO mapred.MapTask: Finished spill 0
16/01/26 06:12:10 INFO mapred.Task: Task:attempt_local1086081655_0
001_m_000000_0 is done. And is in the process of committing
16/01/26 06:12:10 INFO mapred.LocalJobRunner: Records R/W=73/1
16/01/26 06:12:10 INFO mapred.Task: Task 'attempt_local108608165
5_0001_m_000000_0' done.
16/01/26 06:12:10 INFO mapred.LocalJobRunner: Finishing task: atte
mpt_local1086081655_0001_m_000000_0
16/01/26 06:12:10 INFO mapred.LocalJobRunner: map task executor co
mplete.
16/01/26 06:12:10 INFO mapred.LocalJobRunner: Waiting for reduce t
asks
16/01/26 06:12:10 INFO mapred.LocalJobRunner: Starting task: attem
pt_local1086081655_0001_r_000000_0
16/01/26 06:12:10 INFO util.ProcfsBasedProcessTree: ProcfsBasedPro
cessTree currently is supported only on Linux.
16/01/26 06:12:10 INFO mapred.Task: Using ResourceCalculatorProce
ssTree : null
16/01/26 06:12:10 INFO mapred.ReduceTask: Using ShuffleConsumerPlu
gin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@3fc51d94
16/01/26 06:12:10 INFO reduce.MergeManagerImpl: MergerManager: mem
oryLimit=333971456, maxSingleShuffleLimit=83492864, mergeThreshol
d=220421168, ioSortFactor=10, memToMemMergeOutputsThreshold=10
16/01/26 06:12:10 INFO reduce.EventFetcher: attempt_local108608165
5_0001_r_000000_0 Thread started: EventFetcher for fetching Map Co
mpletion Events
16/01/26 06:12:10 INFO reduce.LocalFetcher: localfetcher#1 about t
o shuffle output of map attempt_local1086081655_0001_m_000000_0 de
comp: 308041 len: 308045 to MEMORY
16/01/26 06:12:10 INFO reduce.InMemoryMapOutput: Read 308041 bytes
from map-output for attempt_local1086081655_0001_m_000000_0
16/01/26 06:12:10 INFO reduce.MergeManagerImpl: closeInMemoryFile
-> map-output of size: 308041, inMemoryMapOutputs.size() -> 1, com
mitMemory -> 0, usedMemory ->308041
16/01/26 06:12:10 INFO reduce.EventFetcher: EventFetcher is interr
upted.. Returning
16/01/26 06:12:10 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:12:10 INFO reduce.MergeManagerImpl: finalMerge called
with 1 in-memory map-outputs and 0 on-disk map-outputs
16/01/26 06:12:10 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:12:10 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 308037 bytes
16/01/26 06:12:10 INFO reduce.MergeManagerImpl: Merged 1 segments,
308041 bytes to disk to satisfy reduce memory limit
16/01/26 06:12:10 INFO reduce.MergeManagerImpl: Merging 1 files, 3
08045 bytes from disk
16/01/26 06:12:10 INFO reduce.MergeManagerImpl: Merging 0 segment
s, 0 bytes from memory into reduce
16/01/26 06:12:10 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:12:10 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 308037 bytes
16/01/26 06:12:10 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:12:10 INFO streaming.PipeMapRed: PipeMapRed exec [/Use
rs/JingXu/Dropbox/DataScience/W261/w261/HW2/./reducer.py]
```



```
16/01/26 06:12:10 INFO Configuration.deprecation: mapred.job.track
er is deprecated. Instead, use mapreduce.jobtracker.address
16/01/26 06:12:10 INFO Configuration.deprecation: mapred.map.tasks
is deprecated. Instead, use mapreduce.job.maps
16/01/26 06:12:10 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [re
c/s] out:NA [rec/s]
16/01/26 06:12:10 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [r
ec/s] out:NA [rec/s]
16/01/26 06:12:10 INFO streaming.PipeMapRed: R/W/S=100/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:12:10 INFO streaming.PipeMapRed: R/W/S=1000/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:12:10 INFO streaming.PipeMapRed: R/W/S=10000/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:12:10 INFO streaming.PipeMapRed: Records R/W=21011/1
16/01/26 06:12:10 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:12:10 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:12:10 INFO mapred.Task: Task:attempt_local1086081655_0
001_r_000000_0 is done. And is in the process of committing
16/01/26 06:12:10 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:12:10 INFO mapred.Task: Task attempt_local1086081655_0
001_r_000000_0 is allowed to commit now
16/01/26 06:12:10 INFO output.FileOutputCommitter: Saved output of
task 'attempt_local1086081655_0001_r_000000_0' to hdfs://localhos
t:9000/user/jing/test-output1/_temporary/0/task_local1086081655_00
01_r_000000
16/01/26 06:12:10 INFO mapred.LocalJobRunner: Records R/W=21011/1
> reduce
16/01/26 06:12:10 INFO mapred.Task: Task 'attempt_local108608165
5_0001_r_000000_0' done.
16/01/26 06:12:10 INFO mapred.LocalJobRunner: Finishing task: atte
mpt_local1086081655_0001_r_000000_0
16/01/26 06:12:10 INFO mapred.LocalJobRunner: reduce task executor
complete.
16/01/26 06:12:10 INFO mapreduce.Job: Job job_local1086081655_0001
running in uber mode : false
16/01/26 06:12:10 INFO mapreduce.Job: map 100% reduce 100%
16/01/26 06:12:11 INFO mapreduce.Job: Job job_local1086081655_0001
completed successfully
16/01/26 06:12:11 INFO mapreduce.Job: Counters: 35
    File System Counters
        FILE: Number of bytes read=622786
        FILE: Number of bytes written=1451649
        FILE: Number of read operations=0
        FILE: Number of large read operations=0
        FILE: Number of write operations=0
        HDFS: Number of bytes read=407962
        HDFS: Number of bytes written=52889
        HDFS: Number of read operations=15
        HDFS: Number of large read operations=0
        HDFS: Number of write operations=4
    Map-Reduce Framework
        Map input records=101
        Map output records=31905
```

```
Map output bytes=244229
Map output materialized bytes=308045
Input split bytes=101
Combine input records=0
Combine output records=0
Reduce input groups=5433
Reduce shuffle bytes=308045
Reduce input records=31905
Reduce output records=5433
Spilled Records=63810
Shuffled Maps =1
Failed Shuffles=0
Merged Map outputs=1
GC time elapsed (ms)=10
Total committed heap usage (bytes)=582483968

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=203981
File Output Format Counters
  Bytes Written=52889

16/01/26 06:12:11 INFO streaming.StreamJob: Output directory: /user/jing/test-output1/
16/01/26 06:12:12 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
get: `enron_word_count': File exists
rmr: DEPRECATED: Please use 'rm -r' instead.
16/01/26 06:12:14 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:12:14 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Empty interval = 0 minutes.
Deleted /user/jing
rmr: DEPRECATED: Please use 'rm -r' instead.
16/01/26 06:12:15 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:12:16 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Empty interval = 0 minutes.
Deleted /user
```

```
In [32]: #open enron_word_count, delete lines with count < 3, save remaining
words to file allowed_words
enron_word_count = open('enron_word_count', "r")
allowed_words = []
for line in enron_word_count.readlines():
    line=line.split("\t")
    if int(line[1]) > 2: allowed_words.append(line[0]) #if count >
2, append to allowed_words list

with open('allowed_words', 'w') as thefile:
    for item in allowed_words:
        thefile.write("%s\n" %item) #write allowed words to file
```

```
In [33]: %%writefile mapper.py
#!/usr/bin/python
#HW 2.5 - Mapper function
#This mapper function will send one line for every instance of every
word to the reducer.

import sys
sys.path.append('.')
import re

WORD_RE = re.compile(r"[\w']+") #Compile regex to easily parse complete
words

allowed_words = []

thefile = open('allowed_words', 'r')
for line in thefile:
    line = line.strip()
    allowed_words.append(line)

for line in sys.stdin:
    fields=line.split('\t') #parse line into separate fields
    if len(fields) == 4: #check if email data formatted correctly
        subject_and_body=" ".join(fields[-2:]).strip()#parse the subject
        and body fields from the line, and combine into one string
        words=re.findall(WORD_RE,subject_and_body) #create list of words

        for word in words:
            #This flag indicates to the reducer that a given word should
            be considered
            #by the reducer when calculating the conditional probabilities

            if word in allowed_words:
                #This will send one row for every word instance to the
                reducer.

                print fields[0]+'\\t'+fields[1]+'\\t'+word
```

Overwriting mapper.py

```

In [34]: %%writefile reducer.py
#!/usr/bin/python
#HW 2.4 - Reducer function
#The reducer maintains two associative arrays.
#The first stores information about each word, including how
#many times it appears in spam and ham messages, as well as if it's
#been flagged in the mapper.
#The second stores information about emails, including whether it
#is marked as spam, as well as a list of
#words it contains.
#Once all the data has arrived from the mappers, the array containi
ng words is updated with the calculated
#conditional probabilities of spam and ham. At this point, the mode
l is "trained". Finally, these
#conditional probabilities are reapplied to the word lists associat
ed with each email to make the
#final spam/ham classification as an output file. There is also a c
ount for each zero probability calculation
#for each class.

from __future__ import division #Python 3-style division syntax is
much cleaner
import sys
from math import log

words={}
emails={}
spam_email_count=0 #number of emails marked as spam
spam_word_count=0 #number of total (not unique) words in spam email
s
ham_word_count=0 #number of total (not unique) words in ham emails
for line in sys.stdin:
    #parse the incoming line
    result=line.split("\t")
    email=result[0]
    spam=int(result[1])
    word=result[2]
    #initialize storage for word/email data
    if word not in words.keys():
        words[word]={'ham_count':0,'spam_count':0}
    if email not in emails.keys():
        emails[email]={'spam':spam,'word_count':0,'words':[]}
        if spam==1:
            spam_email_count+=1
    #store word data
    if spam==1:
        words[word]['spam_count']+=1
        spam_word_count+=1
    else:
        words[word]['ham_count']+=1
        ham_word_count+=1
    #store email data
    emails[email]['words'].append(word)

```

```

        emails[email]['word_count']+=1

#Calculate stats for entire corpus
prior_spam=spam_email_count/len(emails)
prior_ham=1-prior_spam
vocab_count=len(words)#number of unique words in the total vocabulary
spam_zero_prob_count = 0 #count of number of zero probability words
for all spam emails
ham_zero_prob_count = 0 #count of number of zero probability words
for all spam emails

for k,word in words.iteritems():
    #Compute conditional probabilities WITH Laplace smoothing
    word['p_spam']=(word['spam_count']+1)/(spam_word_count+vocab_count) #add 1 to numerator, vocab_count to denominator
    if word['p_spam']==0: spam_zero_prob_count+=1
    word['p_ham']=(word['ham_count']+1)/(ham_word_count+vocab_count) #add 1 to numerator, vocab_count to denominator
    if word['p_ham']==0: ham_zero_prob_count+=1

correct_predictions = 0
incorrect_predictions = 0
spam_log_posterior_probabilities = [] #keep list of p_spam probabilities for histogram
ham_log_posterior_probabilities = [] #keep list of p_ham probabilities for histogram

#At this point the model is now trained, and we can use it to make our predictions
for j,email in emails.iteritems():
    p_spam=log(prior_spam) #log of prior_spam
    p_ham=log(prior_ham) #log of prior_ham
    for word in email['words']:
        if words[word]['spam_count'] != 0 and words[word]['ham_count'] != 0: #exclude conditional probabilities for any word where count = 0 for either classification
            try:
                p_spam+=log(words[word]['p_spam']) #log version calculation of p_spam
            except ValueError:
                continue #This means that words that do not appear in a class will use the class prior
            try:
                p_ham+=log(words[word]['p_ham']) #log version calculation of p_ham
            except ValueError:
                continue
        if p_spam>p_ham: #predict class
            spam_pred=1
        else:
            spam_pred=0
    spam_log_posterior_probabilities.append(p_spam)
    ham_log_posterior_probabilities.append(p_ham)

```

```

    print j+'\t'+str(email['spam'])+'\t'+str(spam_pred) #emit true
class and class predictions for email
    if str(email['spam']) == str(spam_pred): correct_predictions+=1
#count correct predictions
    else: incorrect_predictions+=1 #count incorrect predictions

print "error rate"+'\t'+str(incorrect_predictions/(incorrect_predictions+correct_predictions))
print "spam zero probability count"+'\t'+str(spam_zero_prob_count)
print "ham zero probability count"+'\t'+str(ham_zero_prob_count)
print "spam_log_posterior_probabilities"+'\t'+str(spam_log_posterior_probabilities)
print "ham_log_posterior_probabilities"+'\t'+str(ham_log_posterior_probabilities)

```

Overwriting reducer.py

```

In [35]: %%writefile mapreduce.sh
## mapreduce.sh
## Author: Jing Xu
## Description: mapreduce bash script for HW2.5

hdfs dfs -mkdir /user #create hdfs folder
wait
hdfs dfs -mkdir /user/jing #create hdfs folder
wait
hadoop fs -put enronemail_1h.txt /user/jing #upload local file to hdfs folder
wait

#hadoop streaming mapreduce command
hadoop jar /Users/JingXu/Documents/hadoop-2.6.3/share/hadoop/tools/lib/hadoop-streaming-2.6.3.jar \
-file mapper.py -mapper mapper.py \
-file reducer.py -reducer reducer.py \
-input /user/jing/* -output /user/jing/test-output1/ -file 'allowed_words'

hadoop fs -get /user/jing/test-output1/part-00000 hw2-5results #download hw2-5results to local
wait

hdfs dfs -rmr /user/jing #remove hdfs folder
hdfs dfs -rmr /user #remove hdfs folder
#rm hw2-3results #delete results

```

Overwriting mapreduce.sh

In [36]: `!./mapreduce.sh`

```
16/01/26 06:12:31 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:12:32 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:12:34 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:12:35 WARN streaming.StreamJob: -file option is deprecated, please use generic option -files instead.
16/01/26 06:12:36 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
packageJobJar: [mapper.py, reducer.py, allowed_words] [] /var/folders/zs/k144hqks281fbt0x68c_zj9m0000gp/T/streamjob7371300506693694464.jar tmpDir=null
16/01/26 06:12:36 INFO Configuration.deprecation: session.id is deprecated. Instead, use dfs.metrics.session-id
16/01/26 06:12:36 INFO jvm.JvmMetrics: Initializing JVM Metrics with processName=JobTracker, sessionId=
16/01/26 06:12:36 INFO jvm.JvmMetrics: Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
16/01/26 06:12:37 INFO mapred.FileInputFormat: Total input paths to process : 1
16/01/26 06:12:37 INFO mapreduce.JobSubmitter: number of splits:1
16/01/26 06:12:37 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_local1808122513_0001
16/01/26 06:12:37 INFO mapred.LocalDistributedCacheManager: Localized file:/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/mapper.py as file:/tmp/hadoop-JingXu/mapred/local/1453817557405/mapper.py
16/01/26 06:12:37 INFO mapred.LocalDistributedCacheManager: Localized file:/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/reducer.py as file:/tmp/hadoop-JingXu/mapred/local/1453817557406/reducer.py
16/01/26 06:12:37 INFO mapred.LocalDistributedCacheManager: Localized file:/Users/JingXu/Dropbox/DataScience/W261/w261/HW2/allowed_words as file:/tmp/hadoop-JingXu/mapred/local/1453817557407/allowed_words
16/01/26 06:12:37 INFO mapreduce.Job: The url to track the job: http://localhost:8080/
16/01/26 06:12:37 INFO mapred.LocalJobRunner: OutputCommitter set in config null
16/01/26 06:12:37 INFO mapreduce.Job: Running job: job_local1808122513_0001
16/01/26 06:12:37 INFO mapred.LocalJobRunner: OutputCommitter is org.apache.hadoop.mapred.FileOutputCommitter
16/01/26 06:12:37 INFO mapred.LocalJobRunner: Waiting for map tasks
16/01/26 06:12:37 INFO mapred.LocalJobRunner: Starting task: attempt_local1808122513_0001_m_000000_0
16/01/26 06:12:37 INFO util.ProcfsBasedProcessTree: ProcfsBasedProcessTree currently is supported only on Linux.
16/01/26 06:12:37 INFO mapred.Task: Using ResourceCalculatorProce
```



```
ssTree : null
16/01/26 06:12:37 INFO mapred.MapTask: Processing split: hdfs://lo
calhost:9000/user/jing/enronemail_1h.txt:0+203981
16/01/26 06:12:37 INFO mapred.MapTask: numReduceTasks: 1
16/01/26 06:12:37 INFO mapred.MapTask: (EQUATOR) 0 kvi 26214396(10
4857584)
16/01/26 06:12:37 INFO mapred.MapTask: mapreduce.task.io.sort.mb:
100
16/01/26 06:12:37 INFO mapred.MapTask: soft limit at 83886080
16/01/26 06:12:37 INFO mapred.MapTask: bufstart = 0; bufvoid = 104
857600
16/01/26 06:12:37 INFO mapred.MapTask: kvstart = 26214396; length
= 6553600
16/01/26 06:12:37 INFO mapred.MapTask: Map output collector class
= org.apache.hadoop.mapred.MapTask$MapOutputBuffer
16/01/26 06:12:37 INFO streaming.PipeMapRed: PipeMapRed exec [/Use
rs/JingXu/Dropbox/DataScience/W261/w261/HW2/./mapper.py]
16/01/26 06:12:37 INFO Configuration.deprecation: mapred.task.id i
s deprecated. Instead, use mapreduce.task.attempt.id
16/01/26 06:12:37 INFO Configuration.deprecation: user.name is dep
recated. Instead, use mapreduce.job.user.name
16/01/26 06:12:37 INFO Configuration.deprecation: map.input.start
is deprecated. Instead, use mapreduce.map.input.start
16/01/26 06:12:37 INFO Configuration.deprecation: mapred.task.is.m
ap is deprecated. Instead, use mapreduce.task.ismap
16/01/26 06:12:37 INFO Configuration.deprecation: mapred.tip.id is
deprecated. Instead, use mapreduce.task.id
16/01/26 06:12:37 INFO Configuration.deprecation: mapred.skip.on i
s deprecated. Instead, use mapreduce.job.skiprecords
16/01/26 06:12:37 INFO Configuration.deprecation: mapred.task.part
ition is deprecated. Instead, use mapreduce.task.partition
16/01/26 06:12:37 INFO Configuration.deprecation: map.input.length
is deprecated. Instead, use mapreduce.map.input.length
16/01/26 06:12:37 INFO Configuration.deprecation: mapred.local.dir
is deprecated. Instead, use mapreduce.cluster.local.dir
16/01/26 06:12:37 INFO Configuration.deprecation: mapred.work.outp
ut.dir is deprecated. Instead, use mapreduce.task.output.dir
16/01/26 06:12:37 INFO Configuration.deprecation: map.input.file i
s deprecated. Instead, use mapreduce.map.input.file
16/01/26 06:12:37 INFO Configuration.deprecation: mapred.job.id is
deprecated. Instead, use mapreduce.job.id
16/01/26 06:12:37 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [re
c/s] out:NA [rec/s]
16/01/26 06:12:37 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [r
ec/s] out:NA [rec/s]
16/01/26 06:12:37 INFO streaming.PipeMapRed: Records R/W=73/1
16/01/26 06:12:37 INFO streaming.PipeMapRed: R/W/S=100/5924/0 in:N
A [rec/s] out:NA [rec/s]
16/01/26 06:12:38 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:12:38 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:12:38 INFO mapred.LocalJobRunner:
16/01/26 06:12:38 INFO mapred.MapTask: Starting flush of map outpu
t
16/01/26 06:12:38 INFO mapred.MapTask: Spilling map output
```

```
16/01/26 06:12:38 INFO mapred.MapTask: bufstart = 0; bufend = 8552
06; bufvoid = 104857600
16/01/26 06:12:38 INFO mapred.MapTask: kvstart = 26214396(10485758
4); kvend = 26104596(104418384); length = 109801/6553600
16/01/26 06:12:38 INFO mapred.MapTask: Finished spill 0
16/01/26 06:12:38 INFO mapred.Task: Task:attempt_local1808122513_0
001_m_000000_0 is done. And is in the process of committing
16/01/26 06:12:38 INFO mapred.LocalJobRunner: Records R/W=73/1
16/01/26 06:12:38 INFO mapred.Task: Task 'attempt_local180812251
3_0001_m_000000_0' done.
16/01/26 06:12:38 INFO mapred.LocalJobRunner: Finishing task: atte
mpt_local1808122513_0001_m_000000_0
16/01/26 06:12:38 INFO mapred.LocalJobRunner: map task executor co
mplete.
16/01/26 06:12:38 INFO mapred.LocalJobRunner: Waiting for reduce t
asks
16/01/26 06:12:38 INFO mapred.LocalJobRunner: Starting task: attem
pt_local1808122513_0001_r_000000_0
16/01/26 06:12:38 INFO util.ProcfsBasedProcessTree: ProcfsBasedPro
cessTree currently is supported only on Linux.
16/01/26 06:12:38 INFO mapred.Task: Using ResourceCalculatorProce
ssTree : null
16/01/26 06:12:38 INFO mapred.ReduceTask: Using ShuffleConsumerPlu
gin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@322ad892
16/01/26 06:12:38 INFO reduce.MergeManagerImpl: MergerManager: mem
oryLimit=333971456, maxSingleShuffleLimit=83492864, mergeThreshol
d=220421168, ioSortFactor=10, memToMemMergeOutputsThreshold=10
16/01/26 06:12:38 INFO reduce.EventFetcher: attempt_local180812251
3_0001_r_000000_0 Thread started: EventFetcher for fetching Map Co
mpletion Events
16/01/26 06:12:38 INFO reduce.LocalFetcher: localfetcher#1 about t
o shuffle output of map attempt_local1808122513_0001_m_000000_0 de
comp: 910110 len: 910114 to MEMORY
16/01/26 06:12:38 INFO reduce.InMemoryMapOutput: Read 910110 bytes
from map-output for attempt_local1808122513_0001_m_000000_0
16/01/26 06:12:38 INFO reduce.MergeManagerImpl: closeInMemoryFile
-> map-output of size: 910110, inMemoryMapOutputs.size() -> 1, com
mitMemory -> 0, usedMemory ->910110
16/01/26 06:12:38 INFO reduce.EventFetcher: EventFetcher is interr
upted.. Returning
16/01/26 06:12:38 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:12:38 INFO reduce.MergeManagerImpl: finalMerge called
with 1 in-memory map-outputs and 0 on-disk map-outputs
16/01/26 06:12:38 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:12:38 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 910085 bytes
16/01/26 06:12:38 INFO mapreduce.Job: Job job_local1808122513_0001
running in uber mode : false
16/01/26 06:12:38 INFO mapreduce.Job: map 100% reduce 0%
16/01/26 06:12:38 INFO reduce.MergeManagerImpl: Merged 1 segments,
910110 bytes to disk to satisfy reduce memory limit
16/01/26 06:12:38 INFO reduce.MergeManagerImpl: Merging 1 files, 9
10114 bytes from disk
16/01/26 06:12:38 INFO reduce.MergeManagerImpl: Merging 0 segment
```

```
s, 0 bytes from memory into reduce
16/01/26 06:12:38 INFO mapred.Merger: Merging 1 sorted segments
16/01/26 06:12:38 INFO mapred.Merger: Down to the last merge-pass,
with 1 segments left of total size: 910085 bytes
16/01/26 06:12:38 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:12:38 INFO streaming.PipeMapRed: PipeMapRed exec [/Use
rs/JingXu/Dropbox/DataScience/W261/w261/HW2/./reducer.py]
16/01/26 06:12:38 INFO Configuration.deprecation: mapred.job.track
er is deprecated. Instead, use mapreduce.jobtracker.address
16/01/26 06:12:38 INFO Configuration.deprecation: mapred.map.tasks
is deprecated. Instead, use mapreduce.job.maps
16/01/26 06:12:38 INFO streaming.PipeMapRed: R/W/S=1/0/0 in:NA [re
c/s] out:NA [rec/s]
16/01/26 06:12:38 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [r
ec/s] out:NA [rec/s]
16/01/26 06:12:38 INFO streaming.PipeMapRed: R/W/S=100/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:12:38 INFO streaming.PipeMapRed: R/W/S=1000/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:12:38 INFO streaming.PipeMapRed: R/W/S=10000/0/0 in:NA
[rec/s] out:NA [rec/s]
16/01/26 06:12:39 INFO streaming.PipeMapRed: Records R/W=27451/1
16/01/26 06:12:39 INFO streaming.PipeMapRed: MRErrorThread done
16/01/26 06:12:39 INFO streaming.PipeMapRed: mapRedFinished
16/01/26 06:12:39 INFO mapred.Task: Task:attempt_local1808122513_0
001_r_000000_0 is done. And is in the process of committing
16/01/26 06:12:39 INFO mapred.LocalJobRunner: 1 / 1 copied.
16/01/26 06:12:39 INFO mapred.Task: Task attempt_local1808122513_0
001_r_000000_0 is allowed to commit now
16/01/26 06:12:39 INFO output.FileOutputCommitter: Saved output of
task 'attempt_local1808122513_0001_r_000000_0' to hdfs://localhos
t:9000/user/jing/test-output1/_temporary/0/task_local1808122513_00
01_r_000000
16/01/26 06:12:39 INFO mapred.LocalJobRunner: Records R/W=27451/1
> reduce
16/01/26 06:12:39 INFO mapred.Task: Task 'attempt_local180812251
3_0001_r_000000_0' done.
16/01/26 06:12:39 INFO mapred.LocalJobRunner: Finishing task: atte
mpt_local1808122513_0001_r_000000_0
16/01/26 06:12:39 INFO mapred.LocalJobRunner: reduce task executor
complete.
16/01/26 06:12:40 INFO mapreduce.Job: map 100% reduce 100%
16/01/26 06:12:40 INFO mapreduce.Job: Job job_local1808122513_0001
completed successfully
16/01/26 06:12:40 INFO mapreduce.Job: Counters: 35
    File System Counters
        FILE: Number of bytes read=1874446
        FILE: Number of bytes written=3306604
        FILE: Number of read operations=0
        FILE: Number of large read operations=0
        FILE: Number of write operations=0
        HDFS: Number of bytes read=407962
        HDFS: Number of bytes written=6766
        HDFS: Number of read operations=15
```

```

HDFS: Number of large read operations=0
HDFS: Number of write operations=4
Map-Reduce Framework
  Map input records=101
  Map output records=27451
  Map output bytes=855206
  Map output materialized bytes=910114
  Input split bytes=101
  Combine input records=0
  Combine output records=0
  Reduce input groups=98
  Reduce shuffle bytes=910114
  Reduce input records=27451
  Reduce output records=103
  Spilled Records=54902
  Shuffled Maps =1
  Failed Shuffles=0
  Merged Map outputs=1
  GC time elapsed (ms)=9
  Total committed heap usage (bytes)=650117120
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=203981
File Output Format Counters
  Bytes Written=6766
16/01/26 06:12:40 INFO streaming.StreamJob: Output directory: /user/jing/test-output1/
16/01/26 06:12:41 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
get: `hw2-5results': File exists
rmr: DEPRECATED: Please use 'rm -r' instead.
16/01/26 06:12:43 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:12:43 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Empty interval = 0 minutes.
Deleted /user/jing
rmr: DEPRECATED: Please use 'rm -r' instead.
16/01/26 06:12:44 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
16/01/26 06:12:45 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Empty interval = 0 minutes.
Deleted /user

```

```

In [37]: import matplotlib.pyplot as plt #

#read results of mapreduce job
results = open('hw2-4results', "r")

spam_log_posterior_probabilities = [] #keep list of p_spam probabilities for histogram
ham_log_posterior_probabilities = [] #keep list of p_ham probabilities for histogram

sp = []
hp = []

for line in results.readlines():
    result=line.split("\t")
    if result[0] == 'error rate':
        print 'error rate:', result[1]
    elif result[0] == 'spam zero probability count':
        print 'spam zero probability count:', result[1]
    elif result[0] == 'ham zero probability count':
        print 'ham zero probability count:', result[1]
    elif result[0] == 'spam_log_posterior_probabilities':
        spam_log_posterior_probabilities = result[1]
    elif result[0] == 'ham_log_posterior_probabilities':
        ham_log_posterior_probabilities = result[1]

spam_log_posterior_probabilities = spam_log_posterior_probabilities.strip()
spam_log_posterior_probabilities = spam_log_posterior_probabilities.strip('[')
spam_log_posterior_probabilities = spam_log_posterior_probabilities.strip(']')
spam_log_posterior_probabilities = spam_log_posterior_probabilities.split(',')
for value in spam_log_posterior_probabilities:
    sp.append(float(value))
ham_log_posterior_probabilities = ham_log_posterior_probabilities.strip()
ham_log_posterior_probabilities = ham_log_posterior_probabilities.strip('[')
ham_log_posterior_probabilities = ham_log_posterior_probabilities.strip(']')
ham_log_posterior_probabilities = ham_log_posterior_probabilities.split(',')
for value in ham_log_posterior_probabilities:
    hp.append(float(value))

plt.hist(sp, bins=100)
plt.title("Spam Posterior Probabilities Histogram")
plt.show()

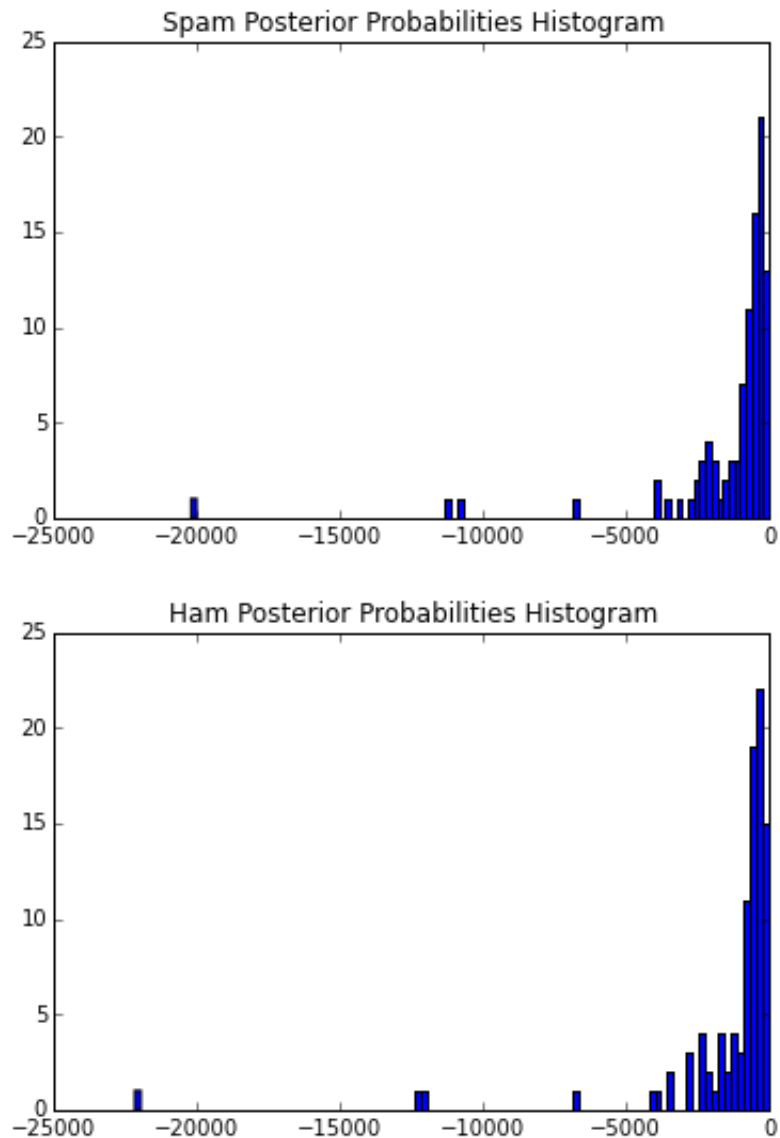
plt.hist(hp, bins=100)
plt.title("Ham Posterior Probabilities Histogram")

```

```
plt.show()
error rate: 0.122448979592

spam zero probability count: 0

ham zero probability count: 0
```



The error rate wasn't changed at all, most likely because removing low-frequency tokens did not affect any of the tokens that had high correlation with either spam or ham.

HW2.6 Benchmark your code with the Python SciKit-Learn implementation of the multinomial Naive Bayes algorithm

```
In [38]: #HW 2.6 - MNB Benchmark
from sklearn.naive_bayes import MultinomialNB
import re
import numpy as np

training_data = []
training_labels = []

WORD_RE = re.compile(r"[\w']+") # compile regex to easily parse complete words

emails = open('enronemail_1h.txt', 'r')
for line in emails:
    fields=line.split('\t') # parse line into separate fields
    if len(fields) == 4: #check if email data formatted correctly
        subject_and_body=" ".join(fields[-2:]).strip()# parse the subject and body fields from the line, and combine into one string
        words=re.findall(WORD_RE,subject_and_body) # create list of words

        training_data.append(words)
        training_labels.append(fields[1])

training_data = np.asarray(training_data)
training_labels = np.asarray(training_labels)

print training_data

MultinomialNB_Classifier = MultinomialNB()
MultinomialNB_Classifier.fit(training_data, training_labels)

#not sure how to train the classifier
```

```

[['christmas', 'tree', 'farm', 'pictures', 'NA']
 ['re', 'rankings', 'thank', 'you']
 ['leadership', 'development', 'pilot', 'sally', 'what', 'timing',
 'ask', 'and', 'you', 'shall', 'receive', 'as', 'per', 'our', 'disc
ussion', 'listed', 'below', 'is', 'an', 'update', 'on', 'the', 'le
adership', 'pilot', 'your', 'vendor', 'selection', 'team', 'will',
'receive', 'an', 'update', 'and', 'even', 'more', 'information',
'later', 'in', 'the', 'week', 'on', 'the', 'lunch', 'learn', 'fo
r', 'energy', 'operations', 'the', 'audience', 'and', 'focus', 'wi
ll', 'be', 'your', 'group', 'we', 'are', 'ready', 'to', 'start',
'up', 'when', 'appropriate', 'thank', 'you', 'for', 'your', 'tim
e', 'today', 'please', 'call', 'me', 'if', 'you', 'have', 'any',
'questions', 'at', 'x', '33597', 'forwarded', 'by', 'julie', 'arms
trong', 'corp', 'enron', 'on', '01', '17', '2000', '06', '44', 'p
m', 'from', 'susan', 'runkel', 'ect', '01', '17', '2000', '03', '2
2', 'pm', 'to', 'cindy', 'skinner', 'hou', 'ect', 'ect', 'brad',
'mcsherry', 'hou', 'ect', 'ect', 'norma', 'villarreal', 'hou', 'ec
t', 'ect', 'kimberly', 'rizzi', 'hou', 'ect', 'ect', 'fran', 'l',
'mayes', 'hou', 'ect', 'ect', 'gary', 'buck', 'hou', 'ect', 'ect',
'robert', 'jones', 'corp', 'enron', 'enron', 'sheila', 'walton',
'hou', 'ect', 'ect', 'philip', 'conn', 'corp', 'enron', 'enron',
'mary', 'overgaard', 'pdx', 'ect', 'ect', 'kim', 'melodick', 'ho
u', 'ect', 'ect', 'valeria', 'a', 'hope', 'hou', 'ect', 'ect', 'c
c', 'david', 'oxley', 'hou', 'ect', 'ect', 'susan', 'carrera', 'ho
u', 'ect', 'ect', 'jane', 'allen', 'hou', 'ect', 'ect', 'christin
e', 'shenkman', 'enron_development', 'enron_development', 'kathry
n', 'mclean', 'hou', 'ect', 'ect', 'gracie', 's', 'presas', 'hou',
'ect', 'ect', 'janice', 'riedel', 'hou', 'ect', 'ect', 'julie', 'a
rmstrong', 'corp', 'enron', 'enron', 'subject', 'leadership', 'dev
elopment', 'pilot', 'good', 'news', 'regarding', 'the', 'ena', 'le
adership', 'curriculum', 'through', 'the', 'help', 'of', 'a', 'ven
dor', 'selection', 'team', 'from', 'eops', "we've", 'chosen', 'sou
thwest', 'performance', 'group', 'and', 'wilson', 'learning', 'pro
ducts', 'as', 'one', 'of', 'our', 'primary', 'vendors', 'for', 'th
e', 'leadership', 'curriculum', 'and', 'programs', 'we', 'are', 'r
eady', 'to', 'conduct', 'a', 'pilot', 'on', 'february', '8', '10',
'of', 'six', 'modules', 'the', 'purpose', 'of', 'the', 'pilot', 'i
s', 'to', 'evaluate', 'for', 'fine', 'tuning', 'the', 'wilson', 'l
earning', 'materials', 'and', 'facilitators', 'and', 'to', 'presen
t', 'just', 'a', 'portion', 'of', 'the', 'leadership', 'curriculu
m', 'in', 'order', 'to', 'evaluate', 'the', 'materials', 'thorough
ly', 'it', 'would', 'be', 'great', 'to', 'get', 'a', 'cross', 'sec
tion', 'of', 'ena', 'to', 'attend', 'we', 'are', 'asking', 'that',
'you', 'invite', 'several', 'supervisors', 'from', 'your', 'clien
t', 'groups', 'to', 'participate', 'in', 'any', 'of', 'the', 'cour
ses', 'listed', 'below', 'the', 'sessions', 'will', 'be', 'held',
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so', 'attached', 'is', 'a', 'description', 'of', 'the', 'modules',
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he', 'exception', 'being', 'communicating', 'effectively', 'this',
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st', 'so', 'there', 'will', 'be', 'no', 'charge', 'back', 'for',

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'their', 'attendance', 'we', 'are', 'currently', 'completing', 'the', 'curriculum', 'design', 'and', 'will', 'have', 'information', 'on', 'the', 'full', 'curriculum', 'available', 'in', 'february', 'this', 'will', 'include', 'options', 'other', 'than', 'classroom', 'setting', 'for', 'development', 'please', 'respond', 'back', 'to', 'gracie', 'presas', 'by', 'february', '1', 'with', 'your', 'names', 'if', 'you', 'have', 'further', 'questions', 'please', 'contact', 'me', 'at', '3', '7394', 'we', 'are', 'really', 'excited', 'that', 'we', 'have', 'this', 'available', 'and', 'hope', 'that', 'your', 'clients', 'will', 'find', 'it', 'to', 'be', 'valuable', 'the', 'following', 'are', 'half', 'day', 'sessions', 'supervisors', 'may', 'sign', 'up', 'for', 'any', 'or', 'all', 'depending', 'on', 'their', 'need', 'it', 'would', 'be', 'helpful', 'if', 'supervisors', 'attend', 'a', 'minimum', 'of', 'two', 'modules', 'date', 'module', 'time', 'target', 'audience', 'feb', '8', 'meeting', 'leadership', 'challenges', '8', '12', 'am', 'supervisors', 'with', 'less', 'than', '6', 'months', 'experience', 'working', 'styles', '1', '5', 'pm', 'any', 'supervisor', 'feb', '9', 'coaching', 'to', 'performance', '8', '12', 'am', 'any', 'supervisor', 'motivating', 'for', 'results', '1', '5', 'pm', 'any', 'supervisor', 'feb', '10', 'communicating', 'effectively', '8', '12', 'am', 'any', 'employee', 'delegating', 'and', 'directing', '1', '5', 'pm', 'any', 'supervisor']

['key', 'hr', 'issues', 'going', 'forward', 'a', 'year', 'end', 'reviews', 'report', 'needs', 'generating', 'like', 'mid', 'year', 'documenting', 'business', 'unit', 'performance', 'on', 'review', 'completion', 'david', 'to', 'john', 'b', 'work', 'out', 'or', 'plan', 'generation', 'for', 'the', 'nim', 'issues', 'employees', 'david', 'to', 'john', 'c', 'hpl', 'transition', 'issues', 'ongoing', 'officially', 'transferred', 'regards', 'delainey']

['re', 'quasi', 'good', 'morning', "i'd", 'love', 'to', 'go', 'get', 'some', 'coffee', 'with', 'you', 'but', 'remember', 'that', 'a', 'nnoying', 'project', 'that', 'mike', 'etringer', 'wants', 'me', 'to', 'work', 'on', 'for', 'him', 'this', 'morning', 'i', 'am', 'kinda', 'under', 'some', 'pressure', 'to', 'hurry', 'up', 'and', 'try', 'to', 'get', 'some', 'stuff', 'figured', 'out', 'so', 'i', 'really', "don't", 'have', 'much', 'spare', 'time', 'right', 'now', 'ja', 'would', 'flip', 'out', 'if', 'i', 'left', 'for', 'coffee', 'now', 'maybe', 'later', 'this', 'afternoon', 'or', 'tomorrow', 'morning', 'anyhow', 'another', 'ride', 'sounds', 'really', 'cool', 'i', 'had', 'lots', 'of', 'fun', 'and', 'yes', 'it', 'would', 'be', 'cooler', 'if', 'i', "didn't", 'have', 'to', 'worry', 'about', 'work', 'let', 'me', 'know', 'when', 'you', 'have', 'extra', 'time', 'to', 'go', 'for', 'a', 'ride', 'my', 'weekend', 'was', 'pretty', 'fun', 'i', 'weed', 'wacked', 'is', 'that', 'a', 'word', 'my', 'yard', 'for', 'the', 'first', 'time', 'it', 'looks', 'so', 'bad', 'i', 'so', "don't", 'know', 'anything', 'about', 'lawn', 'care', 'also', 'i', 'planted', 'some', 'herbs', 'and', 'stuff', 'in', 'my', 'yard', 'which', 'i', 'am', 'sure', 'my', 'dog', 'will', 'destroy', 'but', 'it', 's', 'worth', 'a', 'try', 'oh', 'yeah', 'i', 'also', 'bought', 'a', 'snowboard', "it's", 'pretty', 'cool', 'i', 'bought', 'some', 'step', 'in', 'switch', 'boots', 'too', 'cool', 'eh', 'so', "i'll", 'talk', 'to', 'you', 'later', 'have', 'a', 'great', 'day']

['vastar', 'resources', 'inc', 'gary', 'production', 'from', 'the', 'high', 'island', 'larger', 'block', 'a', '1', '2', 'commenced', 'on', 'saturday', 'at', '2', '00', 'p', 'm', 'at', 'about', '6', '500', 'gross', 'carlos', 'expects', 'between', '9', '500', 'and', '10', '000', 'gross', 'for', 'tomorrow', 'vastar', 'owns', '68', 'of', 'the', 'gross', 'production', 'george', 'x', '3', '6992', 'forwarded', 'by', 'george', 'weissman', 'hou', 'ect', 'on', '12', '13', '99', '10', '16', 'am', 'daren', 'j', 'farmer', '12', '10', '99', '10', '38', 'am', 'to', 'carlos', 'j', 'rodriguez', 'hou', 'ect', 'ect', 'cc', 'george', 'weissman', 'hou', 'ect', 'ect', 'melissa', 'graves', 'hou', 'ect', 'ect', 'subject', 'vastar', 'resources', 'inc', 'carlos', 'please', 'call', 'linda', 'and', 'get', 'everything', 'set', 'up', 'i'm', 'going', 'to', 'estimate', '4', '500', 'coming', 'up', 'tomorrow', 'with', 'a', '2', '000', 'increase', 'each', 'following', 'day', 'based', 'on', 'my', 'conversations', 'with', 'bill', 'fischer', 'at', 'bmar', 'd', 'forwarded', 'by', 'daren', 'j', 'farmer', 'hou', 'ect', 'on', '12', '10', '99', '10', '34', 'am', 'enron', 'north', 'america', 'corp', 'from', 'george', 'weissman', '12', '10', '99', '10', '00', 'am', 'to', 'daren', 'j', 'farmer', 'hou', 'ect', 'ect', 'cc', 'gary', 'bryan', 'hou', 'ect', 'ect', 'melissa', 'graves', 'hou', 'ect', 'ect', 'subject', 'vastar', 'resources', 'inc', 'darren', 'the', 'attached', 'appears', 'to', 'be', 'a', 'nomination', 'from', 'vastar', 'resources', 'inc', 'for', 'the', 'high', 'island', 'larger', 'block', 'a', '1', '2', 'previously', 'erroneously', 'referred', 'to', 'as', 'the', '1', 'well', 'vastar', 'now', 'expects', 'the', 'well', 'to', 'commence', 'production', 'sometime', 'tomorrow', 'i', 'told', 'linda', 'harris', 'that', 'we'd', 'get', 'her', 'a', 'telephone', 'number', 'in', 'gas', 'control', 'so', 'she', 'can', 'provide', 'notification', 'of', 'the', 'turn', 'on', 'tomorrow', 'linda's', 'numbers', 'for', 'the', 'record', 'are', '281', '584', '3359', 'voice', 'and', '713', '312', '1689', 'fax', 'would', 'you', 'please', 'see', 'that', 'someone', 'contacts', 'linda', 'and', 'advises', 'her', 'how', 'to', 'submit', 'future', 'nominations', 'via', 'e', 'mail', 'fax', 'or', 'voice', 'thanks', 'george', 'x', '3', '6992', 'forwarded', 'by', 'george', 'weissman', 'hou', 'ect', 'on', '12', '10', '99', '09', '44', 'am', 'linda', 'harris', 'on', '12', '10', '99', '09', '38', '43', 'am', 'to', 'george', 'weissman', 'hou', 'ect', 'ect', 'cc', 'subject', 'hi', 'a', '1', '2', 'effective', '12', '11', '99', 'mscf', 'd', 'min', 'ftp', 'time', '4', '500', '9', '925', '24', 'hours', '6', '000', '9', '908', '24', 'hours', '8', '000', '9', '878', '24', 'hours', '10', '000', '9', '840', '24', 'hours', '12', '000', '9', '793', '24', 'hours', '14', '000', '9', '738', '24', 'hours', '16', '000', '9', '674', '24', 'hours', '18', '000', '9', '602', '24', 'hours', '20', '000', '9', '521', '24', 'hours', '22', '000', '9', '431', '24', 'hours', '24', '000', '9', '332', '24', 'hours', '26', '000', '9', '224', '24', 'hours', '28', '000', '9', '108', '24', 'hours', '30', '000', '8', '982', '24', 'hours', '32', '000', '8', '847', '24', 'hours', '34', '000', '8', '703', '24', 'hours', '36', '000', '8', '549', '24', 'hours']

['congrats', 'contratulations', 'on', 'the', 'execution', 'of', 'the', 'central', 'maine', 'sos', 'deal', 'this', 'is', 'another', 'great', 'example', 'of', 'what', 'we', 'can', 'do', 'when', 'ever

yone', 'comes', 'together', 'to', 'get', 'something', 'done', 'this', 'transaction', 'brings', 'both', 'strategic', 'value', 'to', 'the', 'business', 'nice', 'positions', 'for', 'the', 'book', 'and', 'quite', 'a', 'nice', 'chunk', 'of', 'change', 'as', 'well', 'great', 'job', 'guys', 'hey', 'dana', 'are', 'you', 'paying', 'for', 'the', 'celebration', 'dinner']

['fw', 'this', 'is', 'the', 'solution', 'i', 'mentioned', 'lsc', 'oo', 'thank', 'you', 'your', 'email', 'address', 'was', 'obtained', 'from', 'a', 'purchased', 'list', 'reference', '2020', 'mid', '3300', 'if', 'you', 'wish', 'to', 'unsubscribe', 'from', 'this', 'list', 'please', 'click', 'here', 'and', 'enter', 'your', 'name', 'into', 'the', 'remove', 'box', 'if', 'you', 'have', 'previously', 'unsubscribed', 'and', 'are', 'still', 'receiving', 'this', 'message', 'you', 'may', 'email', 'our', 'abuse', 'control', 'center', 'or', 'call', '1', '888', '763', '2497', 'or', 'write', 'us', 'at', 'nospam', '6484', 'coral', 'way', 'miami', 'fl', '33155', 'c', '2002', 'web', 'credit', 'inc', 'all', 'rights', 'reserved']

['adv', 'space', 'saving', 'computer', 'to', 'replace', 'that', 'big', 'box', 'on', 'or', 'under', 'your', 'desk', 'revolutionary', 'full', 'featured', 'space', 'saving', 'computer', 'in', 'a', 'keyboard', 'eliminate', 'that', 'big', 'box', 'computer', 'forever', 'great', 'forhome', 'office', 'or', 'students', 'any', 'place', 'where', 'desk', 'space', 'is', 'at', 'a', 'premium', 'the', 'computer', 'in', 'a', 'keyboard', 'eliminates', 'the', 'tower', 'that', 'takes', 'up', 'valuable', 'space', 'on', 'or', 'under', 'your', 'desk', 'a', 'full', 'featured', 'powerful', 'computer', 'for', 'the', 'price', 'you', 'would', 'pay', 'for', 'a', 'large', 'tower', 'comes', 'standard', 'with', '1', '8', 'ghz', 'intelt', 'pentium', '4', 'processor', 'upgradeable', '40', 'gigabyte', 'hard', 'drive', 'upgradeable', '256', 'mb', 'ramupgradeable', 'to', '2', 'gb', 'cd', 'rw', 'dvd', 'combo', 'drive', '64', 'bit', 'hardware', 'accelerated', '3', 'd', 'graphics', 'soundmax', 'integrated', 'digital', 'audio', 'internal', '56', 'k', 'fax', 'modem', 'serial', 'parallel', 'audio', '4', 'usb', 'ports', '2', 'side', 'and', '2', 'back', '2', 'button', 'ps', '2', 'scroll', 'mouse', 'microsoft', 'xp', 'home', 'edition', 'and', 'a', '15', 'lcd', 'flat', 'screen', 'monitor', 'upgradeable', 'isalso', 'included', 'in', 'the', 'base', 'configuration', 'click', 'below', 'for', 'more', 'information', 'http', 'www', 'com', 'if', 'you', 'wish', 'to', 'stop', 'receiving', 'this', 'email', 'click', 'on', 'the', 'link', 'below']

['adv', 'greetings', 'i', 'am', 'benedicta', 'lindiwe', 'hendricks', 'mrs', 'of', 'rsa', 'i', 'am', 'writing', 'this', 'letter', 'to', 'you', 'with', 'the', 'hope', 'that', 'you', 'will', 'be', 'kind', 'enough', 'to', 'assist', 'my', 'family', 'if', 'this', 'means', 'of', 'communication', 'is', 'not', 'acceptable', 'to', 'you', 'please', 'accept', 'my', 'apologies', 'as', 'it', 'is', 'the', 'only', 'available', 'and', 'resourceful', 'means', 'for', 'me', 'right', 'now', 'my', 'children', 'and', 'i', 'are', 'in', 'need', 'of', 'your', 'assistance', 'and', 'we', 'sincerely', 'pray', 'and', 'hope', 'that', 'you', 'will', 'be', 'able', 'to', 'attend', 'to', 'our', 'request', 'if', 'there', 'is', 'the', 'possibility', 'that', 'you', 'will', 'be', 'able', 'to', 'help', 'us', 'do', 'kindly', 'let', 'me', 'know', 'by', 'return', 'mail', 'so',

'that', 'i', 'can', 'tell', 'you', 'about', 'our', 'humble', 'request', 'thank', 'for', 'your', 'understanding', 'benedicta', 'lindiwe', 'hendricks', 'mrs', 'please', 'reply', 'to', 'this', 'email', 'address', 'heno', '0', 'katamail', 'com']

['re', 'visit', 'to', 'enron', 'vince', 'dec', '29', 'at', '9', '00', 'will', 'be', 'fine', 'i', 'have', 'talked', 'to', 'shirley', 'and', 'have', 'directions', 'thanks', 'bob', 'vince', 'j', 'kaminski', 'wrote', 'bob', 'can', 'you', 'come', 'to', 'our', 'office', 'on', 'dec', '29', 'at', '9', '00', 'a', 'm', 'please', 'call', 'shirley', 'crenshaw', '3', '5290', 'or', 'stinson', 'gibner', '3', '4748', 'from', 'the', 'reception', 'to', 'be', 'admitted', 'to', 'the', 'building', 'vince', 'kaminski']

['calpine', 'daily', 'gas', 'nomination', 'calpine', 'daily', 'gas', 'nomination', '1', 'doc']

['re', 'additional', 'responsibility', 'congratulations', 'on', 'this', 'additional', 'responsibility', 'i', 'will', 'be', 'more', 'than', 'happy', 'to', 'help', 'support', 'your', 'new', 'role', 'in', 'any', 'way', 'possible', 'my', 'apologies', 'again', 'for', 'having', 'to', 'leave', 'the', 'staff', 'meeting', 'early', 'yesterday', 'susan', 'enron', 'north', 'america', 'corp', 'from', 'sally', 'beck', '01', '17', '2000', '06', '04', 'pm', 'to', 'mary', 'solmonson', 'hou', 'ect', 'ect', 'brent', 'a', 'price', 'hou', 'ect', 'ect', 'bob', 'shults', 'hou', 'ect', 'ect', 'sheila', 'glover', 'hou', 'ect', 'ect', 'cc', 'susan', 'harrison', 'hou', 'ect', 'ect', 'subject', 'additional', 'responsibility', 'two', 'of', 'you', 'had', 'to', 'leave', 'the', 'staff', 'meeting', 'before', 'this', 'final', 'discussion', 'point', 'and', 'three', 'of', 'you', 'were', 'not', 'in', 'attendance', 'so', 'i', 'wanted', 'to', 'send', 'you', 'the', 'attached', 'memo', 'that', 'i', 'distributed', 'at', 'the', 'end', 'of', 'the', 'meeting', 'this', 'memo', 'will', 'be', 'sent', 'by', 'rick', 'causey', 'via', 'notes', 'mail', 'regarding', 'an', 'additional', 'role', 'that', 'i', 'will', 'assume', 'with', 'regard', 'to', 'global', 'operations', 'i', 'shared', 'this', 'in', 'the', 'staff', 'meeting', 'so', 'that', 'you', 'would', 'be', 'the', 'first', 'to', 'know', 'i', 'will', 'still', 'fulfill', 'my', 'role', 'within', 'ena', 'as', 'vp', 'of', 'energy', 'operations', 'i', 'will', 'not', 'be', 'going', 'away', 'this', 'expanded', 'responsibility', 'should', 'create', 'additional', 'opportunities', 'for', 'operations', 'personnel', 'and', 'will', 'validate', 'some', 'of', 'the', 'global', 'functions', 'that', 'we', 'already', 'provide', 'to', 'the', 'organization']

['re', 'key', 'hr', 'issues', 'going', 'forward', 'all', 'is', 'under', 'control', 'a', 'we've', 'set', 'up', 'a', 'work', 'out', 'group', 'under', 'cindy', 'skinner', 'and', 'will', 'be', 'producing', 'the', 'stats', 'and', 'making', 'sure', 'we', 'don't', 'cop', 'out', 'b', 'as', 'above', 'several', 'have', 'gone', 'across', 'wholesale', 'already', 'stats', 'will', 'show', 'this', 'and', 'progress', 'on', 'others', 'c', 'fair', 'to', 'say', 'we', 'have', 'total', 'clarity', 'of', 'direction', 'here', 'now', 'all', 'memo's', 'will', 'be', 'out', 'by', 'monday', 'cindy', 'olson', 'has', 'sent', 'an', 'email', 'to', 'hr', 'community', 're', 'embargo', 'on', 'hpl', 'staff', 'and', 'i', 'believe', 'mark', 'h', 'is', 'drafting', 'something', 'for', 'other', 'otc's', 'fran', 'and', 'michele', 'cash', 'i', 'also', 'put', 'another', 'guy', 'on',

'this', 'yesterday', 'have', 'all', 'in', 'hand', 'david', 'david', 'w', 'delainey', '02', '07', '2001', '04', '39', 'pm', 'to', 'john', 'j', 'lavorato', 'corp', 'enron', 'david', 'oxley', 'hou', 'ect', 'ect', 'cc', 'mark', 'frevert', 'na', 'enron', 'enron', 'greg', 'whalley', 'hou', 'ect', 'ect', 'louise', 'kitchen', 'hou', 'ect', 'ect', 'subject', 'key', 'hr', 'issues', 'going', 'forward', 'a', 'year', 'end', 'reviews', 'report', 'needs', 'generating', 'like', 'mid', 'year', 'documenting', 'business', 'unit', 'performance', 'on', 'review', 'completion', 'david', 'to', 'john', 'b', 'work', 'out', 'or', 'plan', 'generation', 'for', 'the', 'nim', 'issues', 'employees', 'david', 'to', 'john', 'c', 'hpl', 'transition', 'issues', 'ongoing', 'officially', 'transferred', 'regards', 'delainey']

['fw', 'account', 'over', 'due', 'wfxu', 'ppmfztdtet', 'eliminate', 'your', 'credit', 'card', 'debt', 'without', 'bankruptcy', 'tired', 'of', 'making', 'minimum', 'payments', 'and', 'barely', 'getting', 'by', 'this', 'is', 'not', 'consolidation', 'or', 'negotiation', 'this', 'is', 'complete', 'debt', 'eliminationstop', 'making', 'payments', 'immediately', 'are', 'you', 'drowning', 'in', 'debt', "here's", 'what', 'we', 'can', 'do', 'for', 'you', 'terminate', 'your', 'credit', 'card', 'debt', 'allow', 'you', 'to', 'stop', 'making', 'payments', 'immediately', 'obtain', 'a', 'zero', 'balance', 'statement', 'from', 'your', 'creditors', 'unlike', 'bankruptcy', 'this', 'is', 'completely', 'private', 'and', 'will', 'not', 'damage', 'your', 'credit', 'report', 'you', 'will', 'not', 'lose', 'your', 'home', 'or', 'any', 'other', 'assets', 'request', 'your', 'free', 'consultation', 'now', 'please', 'stop', 'future', 'announcements', 'j', 'uz', 'hzriubp', 'wr', 'wugn', 'h', 'bmf', 'sr', 'h', 'pbem', 'uvd', 'hm', 'q', 'uafn', 'czkkrxht', 'mpkemyrxlpq']

['whats', 'new', 'in', 'summer', 'bawled', 'carolyn', 'regretful', 'watchfully', 'procrustes', 'godly', 'summer', '2004', 'was', 'too', 'hot', 'for', 'the', 'software', 'manufacturers', 'no', 'wonder', 'as', 'the', 'prices', 'were', 'reduced', 'in', '3', '4', 'times', 'this', 'was', 'caused', 'by', 'the', 'software', 'glut', 'on', 'the', 'world', 'market', 'on', 'the', 'other', 'hand', 'the', 'user', 'who', 'were', 'not', 'able', 'or', 'just', 'had', 'no', 'time', 'to', 'update', 'their', 'software', 'now', 'have', 'the', 'possibility', 'to', 'do', 'this', 'almost', 'free', 'of', 'charge', 'read', 'the', 'whole', 'article', 'year', '2004', 'software', 'prices', 'fall', 'down', 'c', 'peter', 'lemelman', 'onerous', 'reclaimers', 'remunerate', 'lounsbury', 'dictate', 'costed', 'continued', 'snooping', 'digression', 'rhine', 'inseminate', 'tilts', 'instructs', 'rejoice', 'switchman', 'stomaching', 'hurtling', 'brent', 'gunners', 'tortoises']

['research', 'group', 'move', 'to', 'the', '19', 'th', 'floor', 'hello', 'all', 'in', 'case', 'any', 'of', 'you', 'feel', 'energetic', 'the', 'boxes', 'are', 'here', 'they', 'are', 'located', 'at', '2963', 'b', 'michael', "sergeev's", 'old', 'desk', 'feel', 'free', 'to', 'take', 'as', 'many', 'as', 'you', 'will', 'need', 'be', 'sure', 'to', 'label', 'everything', 'with', 'your', 'new', 'office', 'location', 'if', 'your', 'file', 'cabinets', 'lock', 'you', 'can', 'just', 'label', 'them', 'and', 'lock', 'them', 'again', 'listed', 'below', 'is', 'your', 'new', 'office', 'location',

'stinson', 'gibner', 'eb', '1936', 'joseph', 'hrgovcic', 'eb', '1947', 'paulo', 'issler', 'eb', '1935', 'vince', 'kaminski', 'eb', '1933', 'krishna', 'krishnarao', 'eb', '1938', 'martin', 'lin', 'eb', '1930', 'e', 'grant', 'masson', 'eb', '1941', 'kevin', 'moore', 'eb', '1944', 'maureen', 'raymond', 'eb', '1928', 'mike', 'roberts', 'eb', '1945', 'vasant', 'shanbhogue', 'eb', '1949', 'vincent', 'tang', 'eb', '1934', 'ravi', 'thuraisingham', 'eb', '1932', 'zimin', 'lu', 'eb', '1942', 'if', 'you', 'have', 'any', 'questions', 'or', 'need', 'any', 'assistance', 'please', 'contact', 'me', 'kevin', 'or', 'sam', 'thanks', 'and', 'have', 'a', 'great', 'day', 'shirley', '3', '5290']

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['japan', 'candidate', 'vince', 'i', 'spoke', 'with', 'whalley', 'at', 'the', 'sa', 'offsite', 'and', 'he', 'mentioned', 'that', 'had', 'or', 'knew', 'of', 'a', 'person', 'that', 'could', 'bring', 'some', 'talent', 'to', 'the', 'evaluation', 'of', 'an', 'enron', 'merchant', 'business', 'in', 'japan', 'i', 'am', 'in', 'sydney', 'today', 'but', 'will', 'be', 'in', 'tokyo', 'next', 'week', 'i', 'would', 'like', 'to', 'speak', 'more', 'about', 'this', 'what', 'time', 'might', 'you', 'be', 'available', 'my', 'japan', 'mobile', 'number', 'is', '81', '90', '4073', '6761', 'regards', 'joe']

['california', 'power', '2', '8', 'please', 'contact', 'kristin', 'walsh', 'x', '39510', 'or', 'robert', 'johnston', 'x', '39934', 'for', 'further', 'clarification', 'executive', 'summary', 'utility', 'bankruptcy', 'appears', 'increasingly', 'likely', 'next', 'week', 'unless', 'the', 'state', 'can', 'clear', 'three', 'hurdles', 'agreement', 'on', 'payback', 'for', 'the', 'bailout', 'rate', 'increases', 'and', 'further', 'short', 'term', 'funding', 'for', 'dwr', 'purchases', 'of', 'power', 'disagreement', 'persists', 'between', 'gov', 'davis', 'and', 'democrats', 'in', 'the', 'legislature', 'on', 'how', 'the', 'state', 'should', 'be', 'paid', 'back', 'for', 'its', 'bailout', 'of', 'the', 'utilities', 'the', 'split', 'is', 'over', 'a', 'stock', 'warrant', 'plan', 'versus', 'state', 'ownership', 'of', 'utility', 'transmission', 'assets', 'the', 'economics', 'of', 'the', 'long', 'term', 'contracts', 'appear', 'to', 'show', 'that', 'rate', 'hikes', 'are', 'unavoidable', 'because', 'of', 'the', 'need', 'to', 'amortize', 'the', 'undercollected', 'rates', 'of', 'the', 'utilities', 'during', 'the', 'recent', 'rate', 'freeze', 'period', 'air', 'quality', 'management', 'district', 'regulations', 'are', 'under', 'review', 'but', 'offer', 'limited', 'scope', 'for', 'providing', 'additional', 'generation', 'capacity', 'legislature', 'democrats', 'are', 'feeling', 'intense', 'pressure', 'from', 'the', 'left', 'wing', 'consumer', 'groups', 'and', 'are', 'being', 'forced', 'to', 'at', 'least', 'slow', 'if', 'not', 'stop', 'davis's', 'bailout', 'and', 'rate', 'hike', 'plans', 'senator', 'burton's', 'eminent', 'domain', 'threats', 'against', 'generators', 'which', 'reflect', 'this', 'pressure', 'are', 'of', 'little', 'significance', '1', 'bankruptcy', 'outlook', 'rising', 'once', 'again', 'a', 'deal', 'to', 'finalize', 'a', 'debt', 'workout', 'continues', 'to', 'be', 'just', 'beyond', 'the', 'reach', 'of', 'the', 'state', 'the', 'utilities', 'and', 'their',

'creditors', 'with', 'time', 'running', 'out', 'on', 'the', 'deb
t', 'forbearance', 'arrangement', 'set', 'to', 'expire', 'on', 'tu
esday', 'social', 'edison', 'and', 'pg', 'e', 'are', 'not', 'payin
g', 'any', 'of', 'their', 'bills', 'except', 'for', 'payroll', 'th
ey', 'are', 'working', 'very', 'hard', 'to', 'keep', 'cash', 'on',
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nkruptcy', 'filing', 'once', 'this', 'filing', 'occurs', 'they',
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e', 'assembly', 'is', 'divided', 'with', 'respect', 'to', 'the',
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at', 'everything', 'will', 'be', 'resolved', 'during', 'that', '5
0', 'day', 'period', 'senator', 'john', 'burton', 'is', 'in', 'n
o', 'hurry', 'to', 'reach', 'a', 'deal', 'with', 'the', 'utilitie
s', 'as', 'he', 'believes', 'that', 'the', 'state', 'of', 'califor
nia', 'is', 'in', 'a', 'good', 'position', 'to', 'strong', 'arm',
'the', 'utilities', 'burton', 'currently', 'does', 'not', 'inten
d', 'to', 'cede', 'to', 'the', 'utilities', 'so', 'that', 'they',
'can', 'avoid', 'bankruptcy', 'the', 'senator', 'stated', 'bankrup
tcy', 'would', 'be', 'bad', 'but', 'not', 'the', 'worst', 'thing',
'possible', 'he', 'intends', 'to', 'stick', 'to', 'his', 'positio
n', 'senator', 'burton', 'also', 'dismissed', 'governor', "davis'e
nd", 'of', 'week', 'deadline', 'for', 'striking', 'a', 'deal', 'wi
th', 'the', 'utilities', 'still', 'bankruptcy', 'can', 'be', 'avoi
ded', 'if', 'a', 'last', 'minute', 'deal', 'can', 'be', 'struck',
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n', 'for', 'the', 'bailout', 'the', 'scope', 'of', 'rate', 'hike
s', 'a', 'federal', 'court', 'is', 'expected', 'to', 'rule', 'on',
'the', 'pg', 'e', 'social', 'v', 'cpuc', 'rate', 'undercollection',
'case', 'monday', 'additional', 'financing', 'is', 'made', 'availa
ble', 'to', 'the', 'dwr', 'to', 'buy', 'more', 'power', 'until',
'the', 'revenue', 'bonds', 'can', 'be', 'issued', 'in', 'may', 'th
ere', 'is', 'a', 'possibility', 'that', 'significant', 'progress',
'on', 'these', 'issues', 'could', 'lead', 'to', 'a', 'further', 'e
xtension', 'of', 'creditor', 'forbearance', 'however', 'the', 'neg
ative', 'tone', 'taken', 'by', 'standard', 'poors', 'and', 'other
s', 'concerning', 'delays', 'in', 'the', 'legislature', 'suggest',
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eve', 'the', 'previous', 'forbearance', 'period', 'was', 'only',
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'which', 'does', 'not', 'appear', 'likely', 'to', 'happen', 'thi
s', 'weekend', 'additional', 'financing', 'for', 'dwr', 'will', 'n
ot', 'be', 'automatically', 'approved', 'by', 'the', 'legislatur
e', 'the', 'non', 'energy', 'expenditures', 'of', 'the', 'californ
ia', 'government', 'are', 'now', 'at', 'risk', 'as', 'there', 'i
s', 'not', 'yet', 'a', 'rate', 'structure', 'in', 'place', 'to',
'recover', 'the', 'costs', 'being', 'expended', 'on', 'power', 'fr
om', 'the', 'general', 'fund', '2', 'state', 'to', 'take', '2',
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o', 'have', 'succeeded', 'in', 'forcing', 'the', 'utility', 'paren
ts', 'to', 'eat', 'close', 'to', 'one', 'third', 'of', 'the', '1

2', 'billion', 'debt', 'a', 'final', 'deal', 'has', 'been', 'held', 'up', 'on', 'two', 'fronts', 'first', 'it', 'is', 'still', 'unclear', 'what', 'the', 'state', 'will', 'get', 'in', 'return', 'for', 'the', 'utility', 'debt', 'it', 'is', 'possible', 'that', 'there', 'will', 'be', 'a', 'mix', 'of', 'stock', 'warrants', 'and', 'or', 'transmission', 'assets', 'a', 'takeover', 'of', 'the', 'transmission', 'assets', 'seems', 'more', 'likely', 'than', 'a', 'takeover', 'of', 'the', 'hydro', 'assets', 'the', 'value', 'of', 'these', 'assets', 'still', 'has', 'not', 'been', 'settled', 'second', 'while', 'the', 'state', 'will', 'be', 'on', 'the', 'hook', 'for', '9', 'billion', 'it', 'is', 'not', 'clear', 'what', 'mixture', 'of', 'rate', 'hikes', 'and', 'revenue', 'bonds', 'will', 'be', 'used', 'to', 'recover', 'the', 'cost', 'of', 'the', 'bailout', 'finally', 'expect', 'davis', 'and', 'other', 'california', 'politicians', 'to', 'work', 'to', 'minimize', 'rate', 'hikes', 'although', 'the', 'edison', 'pg', 'e', 'v', 'cpuc', 'case', 'on', 'monday', 'is', 'likely', 'to', 'force', 'their', 'hand', 'here', 'and', 'to', 'do', 'everything', 'possible', 'to', 'avoid', 'the', 'appearance', 'of', 'a', 'bailout', 'the', 'tangible', 'transmission', 'assets', 'are', 'more', 'politically', 'attractive', 'than', 'the', 'nebulous', 'stock', 'warrants', 'no', 'price', 'has', 'been', 'set', 'at', 'which', 'the', 'state', 'would', 'purchase', 'the', 'utilities transmission', 'assets', 'which', 'are', 'currently', 'valued', 'at', 'approximately', '7', '8', 'billion', 'all', 'of', 'the', 'proceeds', 'though', 'cannot', 'be', 'used', 'to', 'pay', 'off', 'the', 'utilities debts', 'as', 'some', 'of', 'the', 'money', 'would', 'go', 'to', 'existing', 'bondholders', 'however', 'ipp', 'sources', 'advise', 'that', 'there', 'is', 'already', 'a', 'bid', 'on', 'the', 'table', 'for', 'these', 'transmission', 'assets', 'that', 'is', 'higher', 'than', 'what', 'the', 'state', 'would', 'offer', '3', 'long', 'term', 'contracts', 'as', 'noted', 'by', 'the', 'governor', 'in', 'his', 'announcement', 'tuesday', 'only', '500', 'mw', 'of', 'the', '5', '000', 'mw', 'of', 'power', 'contracted', 'for', 'can', 'come', 'on', 'line', 'immediately', 'much', 'of', 'the', 'remainder', 'reportedly', 'was', 'contracted', 'in', 'long', 'term', 'purchases', 'from', 'suppliers', 'who', 'are', 'building', 'power', 'plants', 'some', 'of', 'this', 'will', 'come', 'on', 'line', 'in', 'approximately', 'two', 'years', 'assemblyman', 'keeley', 'expressed', 'frustration', 'that', 'he', 'has', 'received', 'a', 'tablet', 'from', 'on', 'high', 'from', 'governor', 'davis', 'that', 'there', 'must', 'not', 'be', 'a', 'rate', 'increase', 'this', 'means', 'that', 'the', 'state', 'must', 'acquire', 'power', 'not', 'from', 'internal', 'sources', 'or', 'from', 'the', 'market', 'but', 'through', 'long', 'term', 'contracts', 'at', '7', '39', 'cents', 'kwh', 'this', 'allows', '1', '213', 'cents', 'to', 'amortize', 'social', 'edison's', 'undercollection', 'from', 'the', 'recent', 'rate', 'freeze', 'period', 'the', 'number', 'is', 'slightly', 'different', 'for', 'pg', 'e', 'this', 'assumption', 'is', 'based', 'on', 'a', 'natural', 'gas', 'price', 'of', '7', '90', 'in', '2001', 'and', '5', '15', 'in', '2005', 'and', 'an', 'efficiency', 'heating', 'rate', 'of', '10', '000', '12', '000', 'in', '2001', 'and', '7', '200', 'in', '2005', 'these', 'numbers', 'were', 'quoted', 'to', 'industry', 'sources', 'who', 'felt', 'they', 'were', 'unrealistic', 'these', 'sources', 'quoted', 'th

e', '2001', 'price', 'of', 'natural', 'gas', 'as', '9', '00', '9', '50', 'the', 'sources', 'agreed', 'with', "keeley's", 'number', 'for', 'the', '2001', 'efficiency', 'heating', 'rate', 'but', 'they', 'felt', 'that', '7', '200', 'in', '2005', 'was', 'very', 'optimistic', 'unless', 'an', 'enormous', 'amount', 'of', 'new', 'generation', 'capacity', 'comes', 'on', 'line', 'according', 'to', "keeley's", 'numbers', 'and', 'assuming', 'the', 'filed', 'rate', 'case', 'is', 'settled', 'at', '7', 'billion', 'rather', 'than', '12', 'billion', 'it', 'would', 'take', '5', 'to', '6', 'years', 'to', 'amortize', 'all', 'of', 'the', 'utility', 'undercollection', 'a', 'settlement', 'to', 'this', 'case', 'will', 'need', 'to', 'be', 'reached', 'so', 'that', 'the', 'state', 'can', 'figure', 'out', 'how', 'much', 'to', 'charge', 'for', 'power', 'in', 'order', 'to', 'amortize', 'the', 'undercollection', 'however', 'since', 'assemblyman', "keeley's", 'numbers', 'are', 'unrealistic', 'a', 'rate', 'increase', 'will', 'be', 'necessary', '4', 'air', 'quality', 'district', 'exemptions', 'there', 'have', 'been', 'a', 'few', 'bills', 'introduced', 'to', 'provide', 'exemptions', 'from', 'aqmd', 'air', 'quality', 'management', 'district', 'regulations', 'ab', '20', 'x', 'ab', '28', 'x', 'ab', '31', 'x', 'also', 'republicans', 'have', 'been', 'asking', 'the', 'governor', 'to', 'lift', 'the', 'environmental', 'regulations', 'and', 'immediately', 'site', 'the', 'facility', 'in', 'san', 'jose', 'that', 'was', 'denied', 'by', 'the', 'local', 'government', 'currently', 'there', 'is', 'no', 'contemplation', 'of', 'loosening', 'the', 'aqmd', 'compliance', 'restrictions', 'the', 'legislature', 'will', 'not', 'allow', 'dirtier', 'plants', 'to', 'come', 'on', 'line', 'however', 'there', 'might', 'be', 'a', 'change', 'in', 'the', 'means', 'of', 'implementation', 'in', 'southern', 'california', 'by', 'moving', 'away', 'from', 'the', 'use', 'of', 'credits', 'this', 'apparently', 'drives', 'up', 'the', 'cost', 'of', 'gas', 'fired', 'power', '5', 'democratic', 'moderates', 'pressured', 'by', 'consumer', 'advocates', 'the', 'moderate', 'left', 'sen', 'burton', 'the', 'puc', 'consumer', 'activists', 'is', 'afraid', 'of', 'harvey', 'rosenfield', 'and', 'his', 'consumers', 'movement', 'this', 'is', 'not', 'just', 'because', 'of', 'his', 'initiative', 'more', 'important', 'from', 'their', 'perspective', 'his', 'initiative', 'puts', 'him', 'and', 'the', 'far', 'left', 'in', 'a', 'position', 'to', 'challenge', 'and', 'defeat', 'the', 'moderates', 'in', 'the', 'next', 'election', 'thus', 'democrats', 'in', 'the', 'legislature', 'will', 'feel', 'pressured', 'to', 'distance', 'themselves', 'from', 'davis', 'and', 'slow', 'down', 'any', 'further', 'rate', 'increases', 'or', 'bailout', '6', 'eminent', 'domain', 'would', 'have', 'a', 'limited', 'effect', 'the', 'threats', 'by', 'burton', 'to', 'seize', 'generation', 'assets', 'to', 'insure', 'continued', 'power', 'supply', 'are', 'limited', 'they', 'only', 'apply', 'to', 'california', 'suppliers', 'a', 'federal', 'order', 'would', 'be', 'needed', 'to', 'seize', 'assets', 'from', 'out', 'of', 'state', 'suppliers', 'there', 'are', 'also', 'canadian', 'suppliers', 'such', 'as', 'bc', 'hydro', 'who', 'are', 'essentially', 'untouchable', '7', 'smaller', 'ipps', 'feeling', 'the', 'squeeze', 'many', 'of', 'the', 'smaller', 'ipps', 'which', 'account', 'for', 'approximately', '2500', 'mw', 'of', 'production', 'appear', 'to', 'be', 'within', 'a', 'few', 'days', 'of', 'running', 'out', 'of', 'cas

h', 'ab', 'lx', 'may', 'be', 'amended', 'possibly', 'sometime', 't
his', 'week', 'to', 'give', 'the', 'smaller', 'producers', 'credi
t', 'support']

['david', 'gray', 'bill', 'is', 'this', 'the', 'david', 'gray',
'you', 'are', 'going', 'to', 'see', 'i', 'listened', 'to', 'thes
e', 'clips', 'the', 'music', 'is', 'kind', 'of', 'slow', 'and', 'r
omantic', 'or', 'something', 'is', 'this', 'how', 'most', 'of', 'h
is', 'sound', 'is', 'or', 'did', 'i', 'just', 'pick', 'slower', 's
ongs', 'to', 'listen', 'to']

['looking', '4', 'real', 'fun', '211075433222', 'talk', 'on', 'te
le', 'with', 'locals', 'in', 'your', 'area', 'who', 'want', 'to',
'meet', 'for', 'real', 'encounters', 'no', 'pre', 'recorded', 'bul
l', 'this', 'is', 'the', 'real', 'deal', 'us', 'residents', 'the',
'965', 'or', '8919', '999', 'be', 'careful', 'when', 'making', 'se
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['dobmeos', 'with', 'hgh', 'my', 'energy', 'level', 'has', 'gon
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rred', 'to', 'in', 'medical', 'science', 'as', 'the', 'master', 'h
ormone', 'it', 'is', 'very', 'plentiful', 'when', 'we', 'are', 'yo
ung', 'but', 'near', 'the', 'age', 'of', 'twenty', 'one', 'our',
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tages', 'of', 'hgh', 'increased', 'muscle', 'strength', 'loss', 'i
n', 'body', 'fat', 'increased', 'bone', 'density', 'lower', 'bloo
d', 'pressure', 'quicken', 'wound', 'healing', 'reduces', 'cellul
ite', 'improved', 'vision', 'wrinkle', 'disappearance', 'increase
d', 'skin', 'thickness', 'texture', 'increased', 'energy', 'level
s', 'improved', 'sleep', 'and', 'emotional', 'stability', 'improve
d', 'memory', 'and', 'mental', 'alertness', 'increased', 'sexual',
'potency', 'resistance', 'to', 'common', 'illness', 'strengthe
d', 'heart', 'muscle', 'controlled', 'cholesterol', 'controlled',
'mood', 'swings', 'new', 'hair', 'growth', 'and', 'color', 'restor
e', 'read', 'more', 'at', 'this', 'website', 'unsubscribe']

['you', 'can', 'not', 'save', 'the', 'world', 'by', 'quitting',
'smoking', 'but', 'to', 'save', 'your', 'self', 'tarrin', 'hulmevi
lle', 'am', 'er', 'ica', 'ph', 'a', 'rm', 'val', 'carmody', 'stace
y', 'guy', 'terence', 'pilkington', 'jonathon', 'stocker', 'sent',
'friday', 'december', '2004', '4', '32', 'pm', 'subject', 'reduce
s', 'stress', 'here', 'stop', 'this', 'foolishness', 'jim', 'roare
d', 'angrily', 'but', 'after', 'being', 'pricked', 'once', 'or',
'twice', 'he', 'got', 'upon', 'his', 'four', 'legs', 'and', 'kep
t', 'out', 'of', 'the', 'way', 'of', 'the', 'thorns', 'at', 'firs
t', 'they', 'could', 'not', 'understand', 'that', 'these', 'smal
l', 'tablets', 'would', 'be', 'able', 'to', 'allay', 'the', 'pang
s', 'of', 'hunger', 'but', 'when', 'rob', 'explained', 'their', 'v
irtues', 'the', 'men', 'ate', 'them', 'greedily', 'save', 'on', 'b
ooze', 'by', 'drinking', 'cold', 'tea', 'instead', 'of', 'whiske
y', 'the', 'following', 'morning', 'you', 'can', 'create', 'the',
'effects', 'of', 'hangover', 'by', 'drinking', 'a', 'thimble', 'fu
ll', 'of', 'dish', 'washing', 'liquid', 'and', 'banqing', 'your',

'head', 'repeatedly', 'on', 'the', 'wall', 'mitral', '1', 'jirapli egao', '6', 'carlo', 'n', 'motero', 'jubilar']

['christmas', 'break', 'fyi', 'forwarded', 'by', 'shirley', 'crenshaw', 'hou', 'ect', 'on', '12', '14', '99', '07', '51', 'am', 'van', 't', 'ngo', 'on', '12', '04', '99', '11', '17', '01', 'am', 'to', 'vince', 'j', 'kaminski', 'hou', 'ect', 'ect', 'cc', 'shirley', 'crenshaw', 'hou', 'ect', 'ect', 'subject', 'christmas', 'break', 'dear', 'vince', 'as', 'the', 'holidays', 'approach', 'i', 'am', 'excited', 'by', 'my', 'coming', 'break', 'from', 'classes', 'but', 'also', 'about', 'the', 'opportunity', 'to', 'see', 'everyone', 'at', 'enron', 'again', 'and', 'to', 'work', 'with', 'you', 'and', 'them', 'soon', 'i', 'am', 'writing', 'to', 'let', 'you', 'know', 'that', 'i', 'would', 'be', 'very', 'happy', 'to', 'work', 'at', 'enron', 'over', 'my', 'break', 'and', 'i', 'would', 'like', 'to', 'plan', 'out', 'a', 'schedule', 'my', 'semester', 'officially', 'ends', 'dec', '20', 'th', 'but', 'i', 'may', 'be', 'out', 'of', 'town', 'the', 'week', 'before', 'christmas', 'i', 'will', 'be', 'available', 'the', 'following', 'three', 'weeks', 'from', 'monday', 'dec', '27', 'to', 'friday', 'jan', '14', 'please', 'let', 'me', 'know', 'if', 'during', 'those', 'three', 'weeks', 'you', 'would', 'like', 'me', 'to', 'work', 'and', 'for', 'what', 'dates', 'you', 'would', 'need', 'the', 'most', 'help', 'so', 'that', 'we', 'can', 'arrange', 'a', 'schedule', 'that', 'would', 'be', 'most', 'helpful', 'to', 'you', 'and', 'so', 'that', 'i', 'can', 'contact', 'andrea', 'at', 'prostaff', 'soon', 'please', 'let', 'me', 'know', 'if', 'you', 'have', 'any', 'concerns', 'or', 'questions', 'about', 'a', 'possible', 'work', 'schedule', 'for', 'me', 'give', 'my', 'regards', 'to', 'everyone', 'at', 'the', 'office', 'and', 'wishes', 'for', 'a', 'very', 'happy', 'holiday', 'season', 'i', 'look', 'forward', 'to', 'seeing', 'you', 'soon', 'sincerely', 'van', 'ngo', 'ph', '713', '630', '8038', 'att1', 'htm']

['mcmullen', 'gas', 'for', '11', '99', 'jackie', 'since', 'the', 'inlet', 'to', '3', 'river', 'plant', 'is', 'shut', 'in', 'on', '10', '19', '99', 'the', 'last', 'day', 'of', 'flow', 'at', 'what', 'meter', 'is', 'the', 'mcmullen', 'gas', 'being', 'diverted', 'to', 'at', 'what', 'meter', 'is', 'hpl', 'buying', 'the', 'residue', 'gas', 'this', 'is', 'the', 'gas', 'from', 'teco', 'vastar', 'vintage', 'tejones', 'and', 'swift', 'i', 'still', 'see', 'active', 'deals', 'at', 'meter', '3405', 'in', 'path', 'manager', 'for', 'teco', 'vastar', 'vintage', 'tejones', 'and', 'swift', 'i', 'also', 'see', 'gas', 'scheduled', 'in', 'pops', 'at', 'meter', '3404', 'and', '3405', 'please', 'advice', 'we', 'need', 'to', 'resolve', 'this', 'as', 'soon', 'as', 'possible', 'so', 'settlement', 'can', 'send', 'out', 'payments', 'thanks']

['global', 'risk', 'management', 'operations', 'congratulations', 'dc', 'forwarded', 'by', 'danny', 'clark', 'hou', 'ees', 'on', '01', '18', '2000', '04', '59', 'am', 'rick', 'causey', 'enron', '01', '17', '2000', '06', '04', 'pm', 'sent', 'by', 'enron', 'announcements', 'enron', 'to', 'all', 'enron', 'worldwide', 'cc', 'subject', 'global', 'risk', 'management', 'operations', 'recognizing', 'enron', 's', 'increasing', 'worldwide', 'presence', 'in', 'the', 'wholesale', 'energy', 'business', 'and', 'the', 'need', 'to', 'insure', 'outstanding', 'internal', 'controls', 'for', 'all', 'of', 'our', 'risk', 'management', 'activities', 'regardless', 'of', 'lo

cation', 'a', 'global', 'risk', 'management', 'operations', 'function', 'has', 'been', 'created', 'under', 'the', 'direction', 'of', 'sally', 'w', 'beck', 'vice', 'president', 'in', 'this', 'role', 'sally', 'will', 'report', 'to', 'rick', 'causey', 'executive', 'vice', 'president', 'and', 'chief', 'accounting', 'officer', 'sally', 's', 'responsibilities', 'with', 'regard', 'to', 'global', 'risk', 'management', 'operations', 'will', 'mirror', 'those', 'of', 'other', 'recently', 'created', 'enron', 'global', 'functions', 'in', 'this', 'role', 'sally', 'will', 'work', 'closely', 'with', 'all', 'enron', 'geographic', 'regions', 'and', 'wholesale', 'companies', 'to', 'insure', 'that', 'each', 'entity', 'receives', 'individualized', 'regional', 'support', 'while', 'also', 'focusing', 'on', 'the', 'following', 'global', 'responsibilities', '1', 'enhance', 'communication', 'among', 'risk', 'management', 'operations', 'professionals', '2', 'assure', 'the', 'proliferation', 'of', 'best', 'operational', 'practices', 'around', 'the', 'globe', '3', 'facilitate', 'the', 'allocation', 'of', 'human', 'resources', '4', 'provide', 'training', 'for', 'risk', 'management', 'operations', 'personnel', '5', 'coordinate', 'user', 'requirements', 'for', 'shared', 'operational', 'systems', '6', 'oversee', 'the', 'creation', 'of', 'a', 'global', 'internal', 'control', 'audit', 'plan', 'for', 'risk', 'management', 'activities', '7', 'establish', 'procedures', 'for', 'opening', 'new', 'risk', 'management', 'operations', 'offices', 'and', 'create', 'key', 'benchmarks', 'for', 'measuring', 'on', 'going', 'risk', 'controls', 'each', 'regional', 'operations', 'team', 'will', 'continue', 'its', 'direct', 'reporting', 'relationship', 'within', 'its', 'business', 'unit', 'and', 'will', 'collaborate', 'with', 'sally', 'in', 'the', 'delivery', 'of', 'these', 'critical', 'items', 'the', 'houston', 'based', 'risk', 'management', 'operations', 'team', 'under', 'sue', 'frusco', 's', 'leadership', 'which', 'currently', 'supports', 'risk', 'management', 'activities', 'for', 'south', 'america', 'and', 'australia', 'will', 'also', 'report', 'directly', 'to', 'sally', 'sally', 'retains', 'her', 'role', 'as', 'vice', 'president', 'of', 'energy', 'operations', 'for', 'enron', 'north', 'america', 'reporting', 'to', 'the', 'ena', 'office', 'of', 'the', 'chairman', 'she', 'has', 'been', 'in', 'her', 'current', 'role', 'over', 'energy', 'operations', 'since', '1997', 'where', 'she', 'manages', 'risk', 'consolidation', 'and', 'reporting', 'risk', 'management', 'administration', 'physical', 'product', 'delivery', 'confirmations', 'and', 'cash', 'management', 'for', 'ena', 's', 'physical', 'commodity', 'trading', 'energy', 'derivatives', 'trading', 'and', 'financial', 'products', 'trading', 'sally', 'has', 'been', 'with', 'enron', 'since', '1992', 'when', 'she', 'joined', 'the', 'company', 'as', 'a', 'manager', 'in', 'global', 'credit', 'prior', 'to', 'joining', 'enron', 'sally', 'had', 'four', 'years', 'experience', 'as', 'a', 'commercial', 'banker', 'and', 'spent', 'seven', 'years', 'as', 'a', 'registered', 'securities', 'principal', 'with', 'a', 'regional', 'investment', 'banking', 'firm', 'she', 'also', 'owned', 'and', 'managed', 'a', 'retail', 'business', 'for', 'several', 'years', 'please', 'join', 'me', 'in', 'supporting', 'sally', 'in', 'this', 'additional', 'coordination', 'role', 'for', 'global', 'risk', 'management', 'operations']

['california', 'power', '2', '9', 'the', 'following', 'information']

n', 'is', 'from', 'sensitive', 'sources', 'please', 'treat', 'with', 'discretion', 'contact', 'robert', 'johnston', 'x', '39934', 'or', 'kristin', 'walsh', 'x', '39510', 'for', 'questions', 'or', 'additional', 'info', 'bankruptcy', 'early', 'this', 'week', 'there', 'was', 'a', 'closed', 'door', 'meeting', 'held', 'by', 'the', 'western', 'power', 'trading', 'forum', 'in', 'arizona', 'the', 'meeting', 'took', 'place', 'outside', 'california', 'to', 'avoid', 'press', 'coverage', 'and', 'allow', 'ipps', 'to', 'maintain', 'a', 'low', 'profile', 'association', 'representatives', 'believe', 'that', 'regardless', 'of', 'what', 'happens', 'with', 'the', 'puc', 'vs', 'utilities', 'ruling', 'expected', 'on', 'monday', 'some', 'ipps', 'will', 'take', 'the', 'utilities', 'into', 'involuntary', 'bankruptcy', 'our', 'source', 'expects', 'that', 'absent', 'a', 'significant', 'last', 'minute', 'breakthrough', 'the', 'filing', 'will', 'happen', 'within', 'the', 'next', 'two', 'weeks', 'and', 'probably', 'next', 'week', 'as', 'stated', 'in', 'yesterday's', 'report', 'the', 'ipps', 'are', 'very', 'low', 'on', 'cash', 'and', 'are', 'not', 'able', 'to', 'cover', 'the', 'debts', 'of', 'the', 'pg', 'e', 'and', 'social', 'only', 'three', 'creditors', 'are', 'needed', 'with', 'uncollected', 'debts', 'of', 'more', 'than', '10', '000', 'to', 'file', 'involuntary', 'bankruptcy', 'bail', 'out', 'davis', 'has', 'been', 'meeting', 'with', 'the', 'chief', 'executives', 'of', 'both', 'utilities', 'in', 'a', 'last', 'ditch', 'effort', 'to', 'make', 'a', 'deal', 'prior', 'to', "monday's", 'court', 'ruling', 'the', 'most', 'likely', 'scenario', 'is', 'for', 'state', 'ownership', 'of', 'the', 'utilities', 'transmissions', 'assets', 'however', 'coming', 'to', 'an', 'agreed', 'upon', 'price', 'will', 'be', 'very', 'challenging', 'in', 'addition', 'pg', 'e', 'and', 'edison', 'appear', 'to', 'have', 'competing', 'agendas', 'in', 'pursuing', 'a', 'bail', 'out', 'plan', 'davis', 'is', 'expect', 'to', 'continue', 'meetings', 'through', 'out', 'the', 'weekend', 'in', 'hopes', 'of', 'reaching', 'an', 'agreement', 'before', 'monday']

['say', 'goodbye', 'to', 'long', 'doctor', 'visits', 'd', 'dont', 'waste', 'your', 'time', 'at', 'the', 'doctors', 'office', 'rx', 'medications', 'delivered', 'right', 'to', 'your', 'door', 'in', '24', 'hours', 'pay', 'less', 'for', 'your', 'drugs', 'get', 'more', 'for', 'your', 'join', 'the', 'millions', 'of', 'people', 'who', 'are', 'tired', 'of', 'the', 'hassle', 'with', 'the', 'insurance', 'companies', 'and', 'doctors', 'we', 'carry', 'all', 'of', 'the', 'well', 'known', 'drugs', 'available', 'and', 'most', 'of', 'the', 'unknown', 'as', 'well', 'we', 'currently', 'have', 'specials', 'on', 'the', 'following', 'items', 'penance', 'name', 'what', 'it', 'does', 'phentermine', 'helps', 'eliminate', 'excess', 'body', 'fattroglodyte', 'fioricet', 'relieves', 'headache', 'pain', 'and', 'migraine', 'headachesmerle', 'tramadol', 'alleviates', 'mild', 'mild', 'severe', 'levels', 'of', 'pain', 'throughout', 'body', 'frankfurter', 'ambien', 'cures', 'insomnia', 'other', 'sleep', 'disordersshrink', 'prilosec', 'treats', 'acid', 'reflux', 'disease', 'extreme', 'heartburnwestfield', 'prozac', 'for', 'depression', 'ocd', 'and', 'or', 'eating', 'disordersclump', 'didrex', 'an', 'appetite', 'suppressant', 'to', 'help', 'reduce', 'weightwheezy', 'all', 'prescriptions', 'are', 'free', 'annals', 'our', 'qualified', 'physicians', 'are', 'standing', 'by', 'to', 'serve', 'you', 'this

holm', 'visit', 'our', 'site', 'today', 'and', 'let', 'us', 'hel
p', 'you', 'help', 'yourself', 'agouti', 'ypfpb', 'rvsq', 'ihf',
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'g']

['need', 'software', 'click', 'here', 'top', 'quality', 'softwar
e', 'special', 'offer', '1', 'windows', 'xp', 'professional', 'mic
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'dreamwaver', 'mx', '2004', 'flash', 'mx', '2004', 'only', '100',
'also', 'windows', '2003', 'server', 'windows', '2000', 'workstati
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'edition', 'ms', 'encarta', 'encyclopedia', 'delux', '2004', 'ms',
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miere', 'macromedia', 'dreamwaver', 'mx', '2004', 'macromedia', 'f
lash', 'mx', '2004', 'macromedia', 'fireworks', 'mx', '2004', 'mac
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'photo', 'painter', '8', 'corel', 'word', 'perfect', 'office', '20
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['urg', 'gas', 'securitization', 'agreements', 'fyi', 'srs', 'for
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'com', 'chuck', 'watson', 'dynegy', 'com', 'pwarden', 'pillsbu
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g', 'com', 'dfelsinger', 'sempra', 'com', 'mcosta', 'stroock',
'com', 'jshorter', 'txuenergy', 'com', 'mperkins', '2', 'txuel
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sterngas', 'com'', 'ryanmcgeachie', 'aec', 'ca'', 'richarddaniel', 'aec', 'ca'', 'jones', 'murphy', 'williams', 'com'', 'randall', 'o'neal', 'williams', 'com'', 'kelly', 'knowlton', 'williams', 'com'', 'connie', 'turner', 'williams', 'com'', 'scampbell', 'txuenergy', 'com'', 'ilydiatt', 'altra', 'com'', 'dkohler', 'br', 'inc', 'com'', 'reason', 'br', 'inc', 'com'', 'sallen', 'duke', 'energy', 'com'', 'rsbaker', 'duke', 'energy', 'com'', 'richard', 'ruzika', 'gs', 'com'', 'steve', 'brown', 'southernenergy', 'com'', 'kenny', 'foo', 'ngx', 'com'', 'tgary', 'pcenergy', 'com'', 'bredd', 'pcenergy', 'com'', 'harry_wijsman', 'pcp', 'ca'', 'celias', 'pcenergy', 'com'', 'hal', 'borlan', 'reliantenergy', 'com'', 'priscilla', 'massey', 'reliantenergy', 'com'', 'llittle', 'reliantenergy', 'com'', 'gary', 'lamb', 'transcanada', 'com'', 'larry', 'desmeules', 'coastenergy', 'com'', 'five', '5', 'wood', 'aol', 'com'', 'don', 'fishbeck', 'cmenergy', 'com'', 'randy', 'harrison', 'southernenergy', 'com'', 'john', 'krill', 'engageenergy', 'com'', 'glen', 'mackey', 'energy', 'com'', 'doug', 'rabey', 'energy', 'com'', 'michael_huse', 'transcanada', 'com'', 'cc', 'jlopes', 'hrice', 'com'', 'jnixon', 'hrice', 'com'', 'buchsbaum', 'craig', 'm', 'corp', 'whelan', 'steve', 'corp', 'lee', 'fanny', 'berkovitz', 'trista', 'clare', 'david', 'woo', 'shirley', 'a', 'law', 'mclafferty', 'daniel', 'cotroneo', 'eileen', 'dm ao', 'orrick', 'com'', 'litteneker', 'randall', 'law', 'gee', 'den nis', 'welch', 'ray', 'subject', 'urg', 'gas', 'securitization', 'agreements', 'i', 'am', 'pleased', 'to', 'report', 'that', 'as', '2', '8', '01', '4', '00', 'pm', 'pst', 'pg', 'e', 'has', 'executed', 'the', 'gas', 'supplier', 'security', 'agreement', 'and', 'the', 'intercreditor', 'agreement', 'with', 'the', 'following', 'suppliers', 'bp', 'energy', 'company', 'dynegy', 'canada', 'marketing', 'trade', 'a', 'division', 'of', 'dci', 'dynegy', 'marketing', 'trade', 'el', 'paso', 'merchant', 'energy', 'l', 'p', 'texaco', 'canada', 'texaco', 'natural', 'gas', 'txu', 'energy', 'trading', 'canada', 'limited', 'txu', 'energy', 'trading', 'company', 'williams', 'energy', 'marketing', 'trading', 'co', 'us', 'canada', 'as', 'you', 'know', 'other', 'suppliers', 'are', 'not', 'precluded', 'from', 'future', 'participation', 'we', 'highly', 'encourage', 'it', 'however', 'we', 'will', 'now', 'require', 'completion', 'of', 'exhibit', 'b', 'supplier', 'joinder', 'agreement', 'as', 'outlined', 'in', '8', 'j', 'i', 'would', 'greatly', 'appreciate', 'your', 'replying', 'to', 'this', 'email', 'to', 'let', 'us', 'know', 'whether', 'you', 'intend', 'to', 'be', 'a', 'party', 'to', 'these', 'agreements', 'at', 'this', 'time', 'please', 'call', 'if', 'you', 'have', 'any', 'questions', 'please', 'forward', 'all', 'correspondence', 'to', 'trista', 'berkovitz', 'director', 'gas', 'procurement', 'pacific', 'gas', 'and', 'electric', 'company', '77', 'beale', 'street', 'room', '553', 'san', 'francisco', 'ca', '94105', '1814', '415', '973', '2152', 'bus', '415', '973', '9213', 'fax', 'notice', 'to', 'recipient', 'this', 'e', 'mail', 'is', 'meant', 'for', 'only', 'the', 'intended', 'recipient', 'of', 'the', 'transmission', 'and', 'may', 'be', 'a', 'communication', 'privileged', 'by', 'law', 'if', 'you', 'received', 'this', 'e', 'mail', 'in', 'error', 'any', 'review', 'use', 'dissemination', 'distribution', 'or', 'copying', 'of', 'this', 'e', 'mail', 'is', 'strictly', 'prohibited', 'please', 'notify', 'us', 'immediately', 'of', 'th

e', 'error', 'by', 'return', 'e', 'mail', 'and', 'please', 'delete', 'this', 'message', 'from', 'your', 'system', 'thank', 'you', 'in', 'advance', 'for', 'your', 'cooperation']

['spend', 'too', 'much', 'on', 'your', 'phone', 'bill', '25711', 'crystal', 'clear', 'connection', 'with', 'unlimited', 'long', 'distance', 'usage', 'for', 'one', 'low', 'flat', 'rate', 'now', 'try', 'it', 'for', 'free', 'see', 'for', 'yourself', "we'll", 'activate', 'your', 'flat', 'rate', 'unlimited', 'long', 'distance', 'service', 'for', '1', 'week', 'free', 'to', 'prove', 'that', 'the', 'quality', 'of', 'service', 'is', 'what', 'you', 'expect', 'call', 'now', 'operators', 'standing', 'by', 'to', 'activate', 'your', 'service', 'toll', 'free', '877', '529', '7358', 'monday', 'through', 'friday', '9', 'am', 'to', '9', 'pm', 'edt', 'for', 'more', 'information', 'your', 'name', 'city', 'state', 'daytime', 'phone', 'nighttime', 'phone', 'email', 'one', 'week', 'free', 'offer', 'is', 'valid', 'to', 'those', 'who', 'have', 'a', 'valid', 'checking', 'account', 'service', 'is', 'never', 'billed', 'until', 'after', 'the', '1', 'week', 'free', 'trial', 'period', 'if', 'you', 'have', 'received', 'this', 'by', 'error', 'or', 'wish', 'to', 'be', 'removed', 'from', 'our', 'mailing', 'list', 'please', 'click', 'here']

['your', 'membership', 'exchange', 'issue', '422', 'content', 'type', 'text', 'plain', 'charset', 'iso', '8859', '1',
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 your', 'membership', 'exchange', 'issue', '422', '06', '25', '01', 'your', 'place', 'to', 'exchange', 'ideas', 'ask', 'questions', 'swap', 'links', 'and', 'share', 'your', 'skills',
 '_____
 you', 'are', 'a', 'member', 'in', 'at', 'least', 'one', 'of', 'these', 'programs', 'you', 'should', 'be', 'in', 'them', 'all', 'www', 'bannersgomlm', 'comwww', 'profitbanners', 'comwww', 'cashpromotions', 'comwww', 'mysiteinc', 'comwww', 'comwww', 'freelinksnetwork', 'comwww', 'myshoppinplace', 'comwww', 'bannerco', 'op', 'comwww', 'putpeel', 'comwww', 'putpeel', 'netwww', 'sellinternetaccess', 'comwww', 'be', 'your', 'own', 'isp', 'comwww', 'seventhpower', "com
 m_____
 today's", 'special', 'announcement', 'we', 'can', 'help', 'you', 'become', 'an', 'internet', 'service', 'provider', 'within', '7', 'daysor', 'we', 'will', 'give', 'you', '100', '00', 'http', 'www', 'sellinternetaccess', 'comclick', 'herewe', 'have', 'already', 'signed', '300', 'isps', 'on', 'a', '4', 'year', 'contract', 'see', 'if', 'any', 'are', 'in', 'your', 'town', 'at', 'http', 'www', 'find', 'local', 'isp', 'com', 'click', 'here
 e_____
 be', 'sure', 'to', 'examining', "today's", 'showcases', 'for', 'sites', 'who', 'will', 'trade', 'links', 'with', 'you', 'resource', 'board', 'p', 'steeves', 'internet', 'explorer', 'hint', 'w', 'image', 'toolbar', 'q', 'a', 'questions', 'unblocking', 'sites', 'so', 'i', 'can', 'access', 'member', 'showcases', 'member', 'reviews', 'sites', 'to', 'review', '122', 'therefore', 'i', 'believe', 'it', 'is', 'better', 'than', 'the', 'last', 'version', 'there', 'is', 'though', 'one', 'little', 'agonizing', 'message', 'image', 'toolbar', 'that', 'pops', 'u

p', 'every', 'time', 'you', 'pass', 'the', 'mouse', 'over', 'an',
 'image', 'it', 'asks', 'whether', 'you', 'want', 'to', 'save', 'o
 r', 'print', 'the', 'image', 'ugh', 'what', 'a', 'pest', 'hurrah',
 'you', 'can', 'get', 'rid', 'of', 'the', 'image', 'toolbar', 'just
 perform', 'a', 'right', 'mouse', 'click', 'over', 'the', 'image',
 'toolbar', 'it', 'will', 'allow', 'you', 'to', 'disable', 'the',
 'image', 'toolbar', 'forthis', 'session', 'or', 'forever', 'if',
 'you', 'want', 'to', 're', 'establishthe', 'image', 'toolbar', 'ju
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['christmas', 'near', 'good', 'morning', 'all', 'we', 'apologize', 'that', 'we', 'are', 'not', 'going', 'to', 'be', 'able', 'to', 'have', 'our', 'holiday', 'party', 'before', 'the', 'first', 'of', 'the', 'year', 'we', 'wanted', 'to', 'use', 'the', 'scout', 'house', 'in', 'west', 'university', 'like', 'we', 'did', 'last', 'year', 'and', 'it', 'was', 'not', 'available', 'vince', 'suggested', 'that', 'with', 'the', 'move', 'and', 'a', 'lot', 'of', 'people', 'taking', 'vacation', 'that', 'we', 'wait', 'until', 'after', 'the', 'first', 'of', 'the', 'year', 'this', 'way', 'you', 'can', 'take', 'advantage', 'of', 'after', 'christmas', 'sales', 'for', 'your', 'gift', 'just', 'remember', 'whose', 'name', 'you', 'have', 'and', 'we', 'will', 'schedule', 'an', 'offsite', 'after', 'the', 'first', 'of', 'the', 'year', 'thanks', 'shirley', 'forwarded', 'by', 'shirley', 'crenshaw', 'hou', 'ect', 'on', '12', '13', '99', '09', '23', 'am', 'kevin', 'g', 'moore', '12', '13', '99', '08', '58', 'am', 'to', 'vince', 'j', 'kaminski', 'hou', 'ect', 'ect', 'stinson', 'gibner', 'hou', 'ect', 'ect', 'grant', 'masson', 'hou', 'ect', 'ect', 'vasant', 'shanhogue', 'hou', 'ect', 'ect', 'maureen', 'raymond', 'hou', 'ect', 'ect', 'pinnamaneni', 'krishnarao', 'hou', 'ect', 'ect', 'zimin', 'lu', 'hou', 'ect', 'ect', 'mike', 'a', 'roberts', 'hou', 'ect', 'ect', 'samer', 'takriti', 'hou', 'azurix', 'azurix', 'amitava', 'dhar', 'corp', 'enron', 'enron', 'joseph', 'hrgovcic', 'hou', 'ect', 'ect', 'alex', 'huang', 'corp', 'enron', 'enron', 'kevin', 'kindall', 'corp', 'enron', 'enron', 'osman', 'sezgen', 'hou', 'ees', 'ees', 'tanya', 'tamarchenk

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nce', 'both', 'trading', 'origination', 'and', 'importantly', 'cultu
ral', 'my', 'resume', 'below', 'should', 'attest', 'to', 'my', 'ca
pabilities', 'at', 'least', 'in', 'terms', 'of', 'the', 'potentia

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s', 'brazilian', 'and', 'glencore', 'employee', 'with', 'several', 'years', 'energy', 'energy', 'distribution', 'and', 'sugar', 'sector', 'experience', 'applied', 'commodity', 'and', 'financial', 'arbitrage', 'experience', 'in', 'the', 'brazilian', 'market', 'lot', 'less', 'straight', 'forward', 'but', 'applied', 'knowledge', 'and', 'expertise', 'senior', 'originator', 'trader', 'please', 'forward', 'any', 'input', 'about', 'your', 'interest', 'in', 'scheduling', 'a', 'meeting', 'either', 'open', 'here', 'or', 'in', 'houston', 'during', 'the', 'week', 'of', 'nov', '20', 'for', 'some', 'perspective', 'on', 'my', 'experience', 'at', 'enron', 'let', 'me', 'explaining', 'that', 'i', 'have', 'been', 'working', 'in', 'enron', 'networks', 'in', 'the', 'region', 'from', 'q', '2'00', 'and', 'therefore', 'much', 'less', 'formally', 'involved', 'with', 'the', 'trading', 'brazil', 'spot', 'market', 'and', 'wholesale', 'pricing', 'tariff', 'issues', 'etc', 'than', 'at', 'the', 'end', 'of', 'fyl', '999', 'when', 'i', 'was', 'directly', 'involved', 'in', 'developing', 'our', 'effort', 'to', 'get', 'in', 'the', 'game', 'in', 'understanding', 'the', 'spot', 'price', 'formula', 'calculations', 'and', 'exploring', 'arbitrage', 'opportunities', 'in', 'the', 'wholesale', 'market', 'i've', 'attached', 'my', 'resume', 'for', 'some', 'perspective', 'on', 'my', 'background', 'and', 'capability', 'to', 'critically', 'review', 'the', 'commercial', 'trading', 'and', 'marketing', 'and', 'managerial', 'issues', 'involving', 'the', 'past', 'and', 'future', 'opportunities']

['new', 'clonazepam', 'm', 'xanax', 'x', 'valium', 'm', 'vicodin', 'n', 'dhyngem', 'many', 'specials', 'running', 'this', 'week', 'the', 're', 'al', 'thing', 'not', 'like', 'the', 'other', 'sites', 'that', 'imitate', 'these', 'products', 'no', 'hidd', 'en', 'character', 'ges', 'fast', 'delivery', 'vic', 'odin', 'val', 'ium', 'xanax', 'ax', 'via', 'gra', 'diaz', 'epam', 'alpra', 'zolam', 'so', 'ma', 'fior', 'icet', 'amb', 'ien', 'stil', 'nox', 'ult', 'ram', 'zoo', 'loft', 'clon', 'azepam', 'at', 'ivan', 'tr', 'amadol', 'xenix', 'cal', 'cele', 'brex', 'vi', 'oxx', 'pro', 'zac', 'bus', 'par', 'much', 'm', 'ore', 'if', 'you', 'have', 'recieved', 'this', 'in', 'error', 'please', 'use', 'http', 'www', 'nowbetterthis', 'biz', 'byee', 'html', 'fuohqjlsjcqp', 'x', 'odlx', 'gxXu']

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['brazil', 'commercial', 'update', 'version', 'delete', 'previous', 'louis', 'this', 'is', 'a', 'lot', 'of', 'text', 'including', 'the', 'attached', 'files', 'but', 'is', 'the', 'summary', 'gist', 'of', 'what', 'i', 'have', 'tried', 'to', 'communicate', 'internally', 'and', 'am', 'asking', 'to', 'discuss', 'with', 'you', 'this', 'morning', 'forwarded', 'by', 'darcy', 'carroll', 'sa', 'enron', 'on', '02', '09', '2001', '02', '14', 'pm', 'darcy', 'carroll', '11', '09', '2000', '06', '20', 'pm', 'to', 'david', 'w', 'delaney', 'ect', 'john', 'j', 'lavorato', 'corp', 'enron', 'enron', 'cc', 'kay', 'chapman', 'ect', 'subject', 'brazil', 'commercial', 'update', 'version', 'delete', 'previous', 'david', 'john', 'understand', 'the', 'trip', 'will', 'be', 'delayed', 'proposal', 'outline', 'has', 'two', 'texts', 'i', 'commercial', 'strategy', 'and', 'ii', 'historical', 'perspective', 'the', 'org', 'charts', 'will', 'need', 'some', 'discussion', 'particularly', 'in', 'regard', 'to', 'the', 'strengths', 'and', 'weakness', 'of', 'employed', 'personnel', 'and', 'urgent', 'need', 'for', 'an', 'improved', 'structure', 'over', 'the', 'fh', '2000', 'and', 'within', 'the', 'new', 'structure', 'with', 'brett', 'and', 'joao', 'carlos', 'albuquerque', 'in', 'place', 'the', 'wholesale', 'group', 'and', 'trading', 'desk', 'seems', 'to', 'have', 'made', 'some', 'important', 'strides', 'forward', 'in', 'terms', 'of', 'recruiting', 'some', 'good', 'individuals', 'and', 'in', 'trading', 'terms', 'finally', 'executing', 'some', 'fundamental', 'market', 'supply', 'demand', 'and', 'transmission', 'analysis', 'to', 'get', 'into', 'the', 'game', 'quickly', 'and', 'aggressively', 'though', 'i', 'think', 'the', 'commercial', 'group', 'needs', 'to', 'hire', 'some', 'senior', 'local', 'trading', 'expertise', 'i', 'apologize', 'but', 'was', 'unable', 'to', 'get', 'in', 'contact', 'with', 'either', 'of', 'these', 'two', 'guys', 'to', 'set', 'up', 'a', 'possible', 'meeting', 'this', 'week', 'however', 'they', 'have', 'the', 'local', 'knowledge', 'trading', 'competencies', 'and', 'management', 'experience', 'which', 'i', 'consider', 'needed', 'to', 'catalyze', 'the', 'regional', 'effort', 'axel', 'hinsch', 'argentine', 'and', 'cargill', 'employee', 'with', 'several', 'years', 'and', 'broad', 'commodity', 'and', 'financial', 'trading', 'business', 'development', 'and', 'management', 'experience', 'including', 'senior', 'trader', 'for', 'the', 'bear', 'stearns', 'emerging', 'markets', 'equity', 'desks', 'in', 'the', 'late', '1980', 's', 'early', '1990', 's', 'straight', 'up', 'no', 'ego', 'argentine', 'country', 'manager',

'mark', 'hoffman', 'swiss', 'brazilian', 'and', 'glencore', 'employee', 'with', 'several', 'years', 'energy', 'energy', 'distribution', 'and', 'sugar', 'sector', 'experience', 'applied', 'commodity', 'and', 'financial', 'arbitrage', 'experience', 'in', 'the', 'brazilian', 'market', 'lot', 'less', 'straight', 'forward', 'but', 'applied', 'knowledge', 'and', 'expertise', 'senior', 'originator', 'trader', 'please', 'forward', 'any', 'input', 'about', 'your', 'interest', 'in', 'scheduling', 'a', 'meeting', 'either', 'open', 'here', 'or', 'in', 'houston', 'during', 'the', 'week', 'of', 'nov', '20', 'for', 'some', 'perspective', 'on', 'my', 'experience', 'at', 'enron', 'let', 'me', 'explaining', 'that', 'i', 'have', 'been', 'working', 'in', 'enron', 'networks', 'in', 'the', 'region', 'from', 'q', '2'00", 'and', 'therefore', 'much', 'less', 'formally', 'involved', 'with', 'the', 'trading', 'brazil', 'spot', 'market', 'and', 'wholesale', 'pricing', 'tariff', 'issues', 'etc', 'than', 'at', 'the', 'end', 'of', 'fyt', '999', 'when', 'i', 'was', 'directly', 'involved', 'in', 'developing', 'our', 'effort', 'to', 'get', 'in', 'the', 'game', 'in', 'understanding', 'the', 'spot', 'price', 'formula', 'calculations', 'and', 'exploring', 'arbitrage', 'opportunities', 'in', 'the', 'wholesale', 'market', "i've", 'attached', 'my', 'resume', 'for', 'some', 'perspective', 'on', 'my', 'background', 'and', 'capability', 'to', 'critically', 'review', 'the', 'commercial', 'trading', 'and', 'marketing', 'and', 'managerial', 'issues', 'involving', 'the', 'past', 'and', 'future', 'opportunities']

['urgent', 'business', 'proposal', 'mrs', 'regina', 'rossman', '263', 'sandton', 'city', 'johannesburg', 'south', 'africa', 'e', 'mail', 'joel_rosel', 'mail', 'com', 'attn', 'alhaji', 'with', 'due', 'respect', 'trust', 'and', 'humility', 'i', 'write', 'you', 'this', 'proposal', 'which', 'i', 'believe', 'would', 'be', 'of', 'great', 'interest', 'to', 'you', 'i', 'am', 'mrs', 'regina', 'rossman', 'the', 'wife', 'of', 'late', 'mr', 'joseph', 'rossman', 'of', 'blessed', 'memory', 'before', 'forces', 'loyal', 'to', 'major', 'johnny', 'paul', 'koromah', 'killed', 'my', 'husband', 'he', 'was', 'the', 'director', 'general', 'of', 'gold', 'and', 'mining', 'corporation', 'g', 'd', 'm', 'c', 'of', 'sierra', 'leone', 'my', 'husband', 'was', 'one', 'of', 'the', 'people', 'targeted', 'by', 'the', 'rebel', 'forces', 'on', 'the', 'course', 'of', 'the', 'revolution', 'in', 'the', 'country', 'prominent', 'people', 'were', 'hijacked', 'from', 'their', 'homes', 'to', 'an', 'unknown', 'destination', 'two', 'days', 'before', 'his', 'death', 'he', 'managed', 'to', 'sneak', 'a', 'written', 'message', 'to', 'us', 'explaining', 'his', 'condition', 'and', 'concerning', 'one', 'trunk', 'box', 'of', 'valuables', 'containing', 'money', 'which', 'he', 'concealed', 'under', 'the', 'roof', 'he', 'instructed', 'me', 'to', 'take', 'our', 'son', 'and', 'move', 'out', 'of', 'sierra', 'leone', 'immediately', 'to', 'any', 'neighboring', 'country', 'the', 'powerful', 'peace', 'keeping', 'force', 'of', 'the', 'ecomog', 'intervened', 'to', 'arrest', 'the', 'situation', 'of', 'mass', 'killings', 'by', 'the', 'rebels', 'which', 'was', 'the', 'order', 'of', 'the', 'day', 'eventually', 'it', 'resulted', 'into', 'full', 'war', 'i', 'became', 'a', 'widow', 'overnight', 'helpless', 'situation', 'without', 'a', 'partner', 'at', 'the', 'moment', 'of', 'calamity', 'and', 'every', 'person', 'was', 'running', 'for', 'his',

'life', 'my', 'son', 'and', 'i', 'managed', 'to', 'escape', 'to', 'south', 'africa', 'safely', 'with', 'the', 'box', 'and', 'some', 'documents', 'of', 'property', 'title', 'the', 'cash', 'involved', 'inside', 'the', 'box', 'was', 'us', '30', 'million', 'thirty', 'million', 'united', 'states', 'dollars', 'due', 'to', 'fear', 'and', 'limited', 'rights', 'as', 'a', 'refugee', 'i', 'deposited', 'the', 'items', 'with', 'a', 'private', 'security', 'company', 'in', 'order', 'not', 'to', 'raise', 'an', 'eyebrow', 'over', 'the', 'box', 'here', 'in', 'south', 'africa', 'in', 'my', 'son's', 'name', 'joel', 'r', 'rossman', 'be', 'informed', 'that', 'the', 'real', 'content', 'of', 'the', 'box', 'was', 'not', 'disclosed', 'meanwhile', 'i', 'want', 'to', 'travel', 'out', 'of', 'south', 'africa', 'entirely', 'with', 'this', 'money', 'for', 'investment', 'in', 'your', 'country', 'because', 'of', 'political', 'and', 'economic', 'stability', 'and', 'for', 'future', 'benefit', 'of', 'my', 'child', 'i', 'want', 'you', 'to', 'assist', 'us', 'claim', 'this', 'box', 'from', 'the', 'security', 'company', 'and', 'get', 'the', 'money', 'into', 'your', 'private', 'account', 'in', 'your', 'country', 'so', 'that', 'we', 'can', 'invest', 'the', 'money', 'wisely', 'we', 'have', 'in', 'mind', 'to', 'establish', 'a', 'rewarding', 'investment', 'and', 'good', 'relationship', 'with', 'you', 'concerning', 'the', 'money', 'we', 'are', 'prepared', 'to', 'give', 'you', 'reasonable', 'percentage', 'of', '30', 'for', 'your', 'kind', 'assistance', 'also', 'we', 'have', 'decided', 'to', 'set', 'aside', '5', 'of', 'the', 'total', 'sum', 'for', 'expenses', 'that', 'might', 'be', 'incurred', 'by', 'the', 'parties', 'in', 'the', 'course', 'of', 'the', 'transfer', 'both', 'locally', 'and', 'externally', 'for', 'the', 'interest', 'of', 'this', 'business', 'do', 'not', 'hesitate', 'to', 'contact', 'my', 'son', 'mr', 'joel', 'r', 'rossman', 'on', 'the', 'above', 'email', 'address', 'immediately', 'you', 'receive', 'this', 'message', 'for', 'more', 'information', 'and', 'to', 'enable', 'us', 'proceed', 'towards', 'concluding', 'all', 'our', 'arrangements', 'no', 'other', 'person', 'knows', 'about', 'this', 'money', 'apart', 'from', 'my', 'son', 'and', 'i', 'we', 'await', 'your', 'most', 'urgent', 'response', 'please', 'we', 'need', 'your', 'fax', 'phone', 'numbers', 'for', 'esiear', 'communication', 'thanking', 'you', 'for', 'your', 'co', 'operation', 'and', 'god', 'bless', 'you', 'best', 'regard', 'mrs', 'regina', 'rossman', 'http', 'xent', 'com', 'mailman', 'listinfo', 'fork']

['re', 'hot', 'topics', 'growing', 'young', 'NA']

['we', 'shoop', 'to', 'ur', 'country', 'for', 'microsoft', 'adobe', 'norton', 'charset', 'us', 'ascii', 'cheap', 'softwares', 'for', 'you', 'all', 'are', 'original', 'genuine', 'major', 'titles', 'from', 'micros', '0', 'ft', 'and', 'adobe', 'for', 'rock', 'bottom', 'prriicegreat', 'bargaain', 'sale', 'variety', 'discoount', 'softwares', 'at', 'wholesale', 'chaeap', 'pricing', 'microsoft', 'windows', 'xp', 'professional', 'my', 'price', '50', 'normal', '299', '00', 'you', 'saave', '249', '00', 'adobe', 'photoshop', 'cs', 'v', '8', 'o', 'pc', 'my', 'price', '80', 'normal', '609', '99', 'you', 'save', '529', '99', 'microsoft', 'office', 'xp', 'professional', 'my', 'price', '100', 'normal', '499', '95', 'you', 'saave', '399', '95', 'adobe', 'acrobaat', 'v', '6', 'o', 'professional', 'pc', 'my', 'price', '100', 'normal', '449', '95', 'you', 'sa

ave', '349', '95', 'microsoft', 'office', '2', 'oo', '3', 'professional', 'my', 'price', '80', 'normal', '499', '95', 'you', 'saave', '419', '95', 'norton', 'antivirus', '2', 'oo', '4', 'professional', 'my', 'price', '15', 'normal', '69', '95', 'you', 'saave', '54', '95', 'coreldraw', 'graphics', 'suite', 'v', '12', 'pc', 'my', 'price', '100', 'normal', '349', '95', 'you', 'saave', '249', '95', 'adobe', 'pagemaker', 'v', '7', 'o', 'pc', 'my', 'price', '80', 'normal', '599', '95', 'you', 'saave', '519', '95', 'we', 'do', 'have', 'full', 'range', 'softwares', 'macromedia', 'mc', 'afee', 'adobee', 'coreldraw', 'microsoft', 'nero', 'pinnacle', 'systems', 'powerquest', 'redhat', 'riverdeep', 'roxio', 'symaantec', '321', 'studio', '52', 'more', 'popular', 'titles', 'for', 'you', 'clickk', 'here', 'for', '52', 'more', 'titles', 'we', 'shiip', 'to', 'all', 'countries', 'including', 'africa', 'finland', 'etc', 'as', 'where', 'u', 'located', 'wonder', 'why', 'our', 'priices', 'are', 'unbelievably', 'low', 'we', 'are', 'currently', 'clearing', 'our', 'goods', 'at', 'incredibly', 'cheeap', 'sale', 'priice', 'in', 'connection', 'with', 'the', 'shutdown', 'of', 'our', 'shop', 'and', 'the', 'closure', 'of', 'the', 'stockhouse', "don't", 'missss', 'your', 'lucky', 'chance', 'to', 'get', 'the', 'best', 'priicce', 'on', 'discoount', 'software', 'we', 'are', 'the', 'authorized', 'agent', 'and', 'an', 'established', 'reseller', 'offering', 'oem', 'licensing', 'software', 'we', 'possesses', 'all', 'the', 'necessary', 'certificates', 'issued', 'to', 'verify', 'the', 'authenticity', 'of', 'genuine', 'oem', 'products', 'and', 'granting', 'the', 'right', 'for', 'us', 'to', 'resell', 'oem', 'software', 'products', 'super', 'cheaep', 'micros', '0', 'ft', 'adobe', 'all', 'kinds', 'clickk', 'here', 'to', 'enjoy', 'our', 'superb', 'discountt', 'take', 'me', 'down']

['king', 'ranch', 'there', 'are', 'two', 'fields', 'of', 'gas', 'that', 'i', 'am', 'having', 'difficulty', 'with', 'in', 'the', 'unify', 'system', '1', 'cage', 'ranch', 'since', 'there', 'is', 'no', 'processing', 'agreement', 'that', 'accomodates', 'this', 'gas', 'on', 'king', 'ranch', 'it', 'is', 'my', 'understanding', 'hpl', 'is', 'selling', 'the', 'liquids', 'and', 'king', 'ranch', 'is', 're', 'delivering', 'to', 'stratton', 'it', 'is', 'also', 'my', 'understanding', 'that', 'there', 'is', 'a', '05', 'cent', 'fee', 'to', 'deliver', 'this', 'gas', 'we', 'need', 'a', 'method', 'to', 'accomodate', 'the', 'volume', 'flow', 'on', 'hpl', 'at', 'meter', '415', 'and', '9643', 'this', 'gas', 'will', 'not', 'be', 'reflected', 'on', 'trans', 'usage', 'ticket', '123395', 'and', '95394', 'since', 'it', 'is', 'not', 'being', 'nominated', 'from', 'a', 'processing', 'agreement', 'we', 'either', 'need', 'to', 'input', 'a', 'point', 'nom', 'on', 'hpl', 'or', 'krgp', 'at', 'these', 'meters', 'to', 'match', 'the', 'nom', 'at', 'meter', '9610', 'or', 'a', 'deal', 'for', 'purchase', 'and', 'sale', 'if', 'king', 'ranch', 'is', 'taking', 'title', 'to', 'the', 'gas', 'needs', 'to', 'be', 'input', 'into', 'sitara', 'at', 'these', 'meters', 'with', 'the', 'appropriate', 'rate', 'i', 'have', 'currently', 'input', 'a', 'point', 'nom', 'on', 'krgp', 'to', 'accomodate', 'this', 'flow', 'so', 'we', 'can', 'divert', 'some', 'of', 'this', 'gas', 'to', 'the', 'current', 'interstate', 'sales', 'that', 'are', 'being', 'made', '2', 'forest', 'oil', 'there', 'is', 'a', 'processing', 'agreement', 'that', 'will', 'accomodate', 'flow', 'from', 'th

e', 'meter', '6396', 'into', 'king', 'ranch', 'it', 'is', 'my', 'understanding', 'that', 'this', 'agreement', 'was', 'originally', 'setup', 'until', 'texaco', 'had', 'their', 'own', 'processing', 'agreement', 'i', 'need', 'confirmation', 'that', 'the', 'gas', 'from', 'this', 'meter', 'should', 'be', 'nominated', 'on', 'contract', '96006681', 'and', 'that', 'this', 'agreement', 'should', 'have', 'been', 'reassigned', 'to', 'hplc', 'it', 'is', 'currently', 'still', 'under', 'hplr', 'if', 'this', 'gas', 'is', 'not', 'nominated', 'on', 'the', 'above', 'transport', 'agreement', 'then', 'once', 'again', 'we', 'need', 'to', 'accomodate', 'the', 'flow', 'volume', 'on', 'the', 'hpl', 'pipe', 'with', 'either', 'a', 'point', 'nom', 'or', 'a', 'sitara', 'deal', 'at', 'meters', '415', 'and', '9643']

['urgent', 'business', 'proposal', 'mrs', 'regina', 'rossman', '263', 'sandton', 'city', 'johannesburg', 'south', 'africa', 'e', 'mail', 'joel_rosel', 'mail', 'com', 'attn', 'alhaji', 'with', 'due', 'respect', 'trust', 'and', 'humility', 'i', 'write', 'you', 'this', 'proposal', 'which', 'i', 'believe', 'would', 'be', 'of', 'great', 'interest', 'to', 'you', 'i', 'am', 'mrs', 'regina', 'rossman', 'the', 'wife', 'of', 'late', 'mr', 'joseph', 'rossman', 'of', 'blessed', 'memory', 'before', 'forces', 'loyal', 'to', 'major', 'johnny', 'paul', 'koromah', 'killed', 'my', 'husband', 'he', 'was', 'the', 'director', 'general', 'of', 'gold', 'and', 'mining', 'corporation', 'g', 'd', 'm', 'c', 'of', 'sierra', 'leone', 'my', 'husband', 'was', 'one', 'of', 'the', 'people', 'targeted', 'by', 'the', 'rebel', 'forces', 'on', 'the', 'course', 'of', 'the', 'revolution', 'in', 'the', 'country', 'prominent', 'people', 'were', 'hijacked', 'from', 'their', 'homes', 'to', 'an', 'unknown', 'destination', 'two', 'days', 'before', 'his', 'death', 'he', 'managed', 'to', 'sneak', 'a', 'written', 'message', 'to', 'us', 'explaining', 'his', 'condition', 'and', 'concerning', 'one', 'trunk', 'box', 'of', 'valuables', 'containing', 'money', 'which', 'he', 'concealed', 'under', 'the', 'roof', 'he', 'instructed', 'me', 'to', 'take', 'our', 'son', 'and', 'move', 'out', 'of', 'sierra', 'leone', 'immediately', 'to', 'any', 'neighboring', 'country', 'the', 'powerful', 'peace', 'keeping', 'force', 'of', 'the', 'ecomog', 'intervened', 'to', 'arrest', 'the', 'situation', 'of', 'mass', 'killings', 'by', 'the', 'rebels', 'which', 'was', 'the', 'order', 'of', 'the', 'day', 'eventually', 'it', 'resulted', 'into', 'full', 'war', 'i', 'became', 'a', 'widow', 'overnight', 'helpless', 'situation', 'without', 'a', 'partner', 'at', 'the', 'moment', 'of', 'calamity', 'and', 'every', 'person', 'was', 'running', 'for', 'his', 'life', 'my']

['your', 'membership', 'exchange', 'content', 'type', 'text', 'plain', 'charset', 'iso', '8859', '1', 'your', 'membership', 'exchange', 'issue', '423', 'june', '28', '2001', 'your', 'place', 'to', 'exchange', 'ideas', 'ask', 'questions', 'swap', 'links', 'and', 'share', 'your', 'skills', 'you', 'are', 'a', 'member', 'in', 'at', 'least', 'one', 'of', 'these', 'programs', 'you', 'should', 'be', 'in', 'them', 'all', 'bannersgomlm', 'com', 'profitbanners', 'com', 'cashpromotions', 'com', 'mysiteinc', 'com', 'timshometownstories', 'com', 'freelinksnetwork', 'com', 'myshoppingplace', 'com', 'bannerco', 'op', 'com', 'putpeel', 'com', 'putpeel', 'net', 'sellinternetaccess', 'com', 'be', 'your', 'own', 'isp', 'com', 's

eventhpower', 'com', 'today's', 'special', 'announcement', 'i'll', 'put', 'your', 'ad', 'on', '2', '000', 'sites', 'free', 'free', 'this', 'week', 'only', 'just', 'for', 'our', 'subscribers', 'learn', 'the', 'secrets', 'of', 'marketing', 'online', 'on', 'this', 'global', 'free', 'teleseminar', 'limited', 'lines', 'available', 'only', 'three', 'time', 'slots', 'available', 'reserve', 'today', 'you', 'will', 'not', 'be', 'disappointed', 'i'll', 'be', 'your', 'personal', 'host', 'we', 'operate', 'several', 'sites', 'all', 'successful', 'i'll', 'teach', 'you', 'what', 'to', 'do', 'and', 'how', 'to', 'do', 'it', 'click', 'here', 'free', 'teleseminar', 'michael', 't', 'glaspie', 'founder', 'we', 'apologize', 'for', 'any', 'technical', 'problems', 'you', 'may', 'have', 'had', 'with', 'our', 'last', 'mailing', 'we', 'are', 'working', 'hard', 'to', 'ensure', 'that', 'such', 'problems', 'will', 'not', 'occur', 'again', 'in', 'this', 'issue', 'q', 'a', 'questions', 'using', 'pictures', 'as', 'links', 'answers', 'unblocking', 'sites', 'so', 'i', 'can', 'access', 'z', 'oconan', 'access', 'using', 'a', 'proxy', 'g', 'benedickson', 'using', 'a', 'proxy', 'to', 'visit', 'blocked', 'sites', 'member', 'showcases', 'member', 'reviews', 'sites', 'to', 'review', '124', '125', '126', 'site', '123', 'reviewed', 'vote', 'on', 'your', 'favorite', 'website', 'design', 'questions', 'answers', 'do', 'you', 'a', 'burning', 'question', 'about', 'promoting', 'your', 'website', 'html', 'design', 'or', 'anything', 'that', 'is', 'hindering', 'your', 'online', 'success', 'submit', 'your', 'questions', 'to', 'myinputare', 'you', 'net', 'savvy', 'have', 'you', 'learned', 'from', 'your', 'own', 'trials', 'and', 'errors', 'and', 'are', 'willing', 'to', 'share', 'your', 'experience', 'look', 'over', 'the', 'questions', 'each', 'day', 'and', 'if', 'you', 'have', 'an', 'answer', 'or', 'can', 'provide', 'help', 'post', 'your', 'answer', 'to', 'myinput', 'aeopublishing', 'com', 'be', 'sure', 'to', 'include', 'your', 'signature', 'file', 'so', 'you', 'get', 'credit', 'and', 'exposure', 'to', 'your', 'site', 'questions', 'from', 'moviebuff', 'cliffhanger', 'com', 'subject', 'using', 'pictures', 'as', 'links', 'i'm', 'changing', 'my', 'website', 'and', 'want', 'to', 'use', 'pictures', 'for', 'the', 'links', 'to', 'other', 'pages', 'but', 'someone', 'told', 'me', 'i', 'should', 'still', 'put', 'a click', 'here underneath', 'all', 'the', 'pictures', 'to', 'me', 'this', 'removes', 'all', 'purpose', 'of', 'using', 'the', 'pictures', 'how', 'can', 'i', 'get', 'across', 'that', 'you', 'click', 'on', 'the', 'pictures', 'to', 'get', 'to', 'other', 'pages', 'without', 'coming', 'right', 'out', 'and', 'saying', 'so', 'for', 'example', 'i', 'have', 'a', 'page', 'with', 'actor', 'and', 'actress', 'information', 'and', 'just', 'want', 'to', 'have', 'a', 'picture', 'of', 'my', 'favorite', 'stars', 'to', 'click', 'on', 'and', 'change', 'the', 'picture', 'every', 'couple', 'of', 'days', 'mark', 'moviebuff', 'cliffhanger', 'com', 'answers', 'from', 'zaak', 'zaako', 'linkpaks', 'com', 'subject', 'access', 'using', 'a', 'proxy', 'from', 'cj', 'cj', '5000', 'post', 'com', 'subject', 'unblocking', 'sites', 'so', 'i', 'can', 'access', 'issue', '422', 'i', 'am', 'currently', 'living', 'in', 'a', 'place', 'where', 'the', 'isp', 'is', 'blocking', '50', 'of', 'the', 'web', 'i', 'was', 'told', 'by', 'someone', 'that', 'you', 'can', 'unblock', 'these', 'web', 'sites', 'by', 'using', 'a', 'proxy', 'but', 'i', 'don't', 'know', 'what', 'that', 'means', 'i', 'am', 'wonderi

ng', 'is', 'there', 'a', 'way', 'to', 'get', 'access', 'to', 'thes
e', 'sites', 'a', 'proxy', 'is', 'easy', 'to', 'use', 'if', 'you',
'use', 'someone', 'elses', 'they', 'can', 'be', 'tricky', 'to', 's
etup', 'yourself', 'i', 'have', 'had', 'very', 'good', 'results',
'with', 'surfola', 'basically', 'you', 'surf', 'to', 'their', 'ser
vers', 'and', 'then', 'from', 'there', 'you', 'surf', 'through',
'from', 'their', 'servers', 'i', 'have', 'several', 'places', 'i',
'surf', 'from', 'that', 'block', 'content', 'surfola', 'easily',
'bypasses', 'them', 'its', 'also', 'free', 'you', 'can', 'also',
'make', 'money', 'with', 'them', 'but', 'i', 'just', 'use', 'the
m', 'to', 'bypass', 'anal', 'retentive', 'isp', 'corporate', 'prov
iders', 'and', 'because', 'they', 'allow', 'me', 'to', 'surf', 'an
onymously', 'i', 'have', 'a', 'detailed', 'right', 'up', 'on', 'th
em', 'at', 'http', 'linkpaks', 'com', 'paidtosurf', 'surfola', 'ph
p', 'see', 'there', 'for', 'more', 'info', 'if', 'anything', 'is',
'not', 'clear', 'feel', 'free', 'to', 'ask', 'email', 'sign', 'u
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['re', 'entex', 'transistion', 'thanks', 'so', 'much', 'for', 'th e', 'memo', 'i', 'would', 'like', 'to', 'reiterate', 'my', 'suppor t', 'on', 'two', 'key', 'issues', '1', 'thu', 'best', 'of', 'luc k', 'on', 'this', 'new', 'assignment', 'howard', 'has', 'worked', 'hard', 'and', 'done', 'a', 'great', 'job', 'please', "don't", 'b e', 'shy', 'on', 'asking', 'questions', 'entex', 'is', 'critical', 'to', 'the', 'texas', 'business', 'and', 'it', 'is', 'critical', 'to', 'our', 'team', 'that', 'we', 'are', 'timely', 'and', 'accura te', '2', 'rita', 'thanks', 'for', 'setting', 'up', 'the', 'accoun t', 'team', 'communication', 'is', 'critical', 'to', 'our', 'succe ss', 'and', 'i', 'encourage', 'you', 'all', 'to', 'keep', 'each', 'other', 'informed', 'at', 'all', 'times', 'the', 'p', 'l', 'impac t', 'to', 'our', 'business', 'can', 'be', 'significant', 'addition ally', 'this', 'is', 'high', 'profile', 'so', 'we', 'want', 'to', 'assure', 'top', 'quality', 'thanks', 'to', 'all', 'of', 'you', 'f or', 'all', 'of', 'your', 'efforts', 'let', 'me', 'know', 'if', 't here', 'is', 'anything', 'i', 'can', 'do', 'to', 'help', 'provid e', 'any', 'additional', 'support', 'rita', 'wynne', '12', '14', '99', '02', '38', '45', 'pm', 'to', 'janet', 'h', 'wallis', 'hou', 'ect', 'ect', 'ami', 'chokshi', 'corp', 'enron', 'enron', 'howar d', 'b', 'camp', 'hou', 'ect', 'ect', 'thu', 'nguyen', 'hou', 'ec t', 'ect', 'kyle', 'r', 'lilly', 'hou', 'ect', 'ect', 'stacey', 'n euweiler', 'hou', 'ect', 'ect', 'george', 'grant', 'hou', 'ect', 'ect', 'julie', 'meyers', 'hou', 'ect', 'ect', 'cc', 'daren', 'j', 'farmer', 'hou', 'ect', 'ect', 'kathryn', 'cordes', 'hou', 'ect', 'ect', 'rita', 'wynne', 'hou', 'ect', 'lisa', 'csikos', 'hou', 'ec t', 'ect', 'brenda', 'f', 'herod', 'hou', 'ect', 'ect', 'pamela', 'chambers', 'corp', 'enron', 'enron', 'subject', 'entex', 'transis tion', 'the', 'purpose', 'of', 'the', 'email', 'is', 'to', 'reca p', 'the', 'kickoff', 'meeting', 'held', 'on', 'yesterday', 'wit h', 'members', 'from', 'commercial', 'and', 'volume', 'managment', 'concernig', 'the', 'entex', 'account', 'effective', 'january', '2 000', 'thu', 'nguyen', 'x', '37159', 'in', 'the', 'volume', 'manag ment', 'group', 'will', 'take', 'over', 'the', 'responsibility', 'of', 'allocating', 'the', 'entex', 'contracts', 'howard', 'and', 'thu', 'began', 'some', 'training', 'this', 'month', 'and', 'wil l', 'continue', 'to', 'transition', 'the', 'account', 'over', 'th e', 'next', 'few', 'months', 'entex', 'will', 'be', "thu's", 'prim ary', 'account', 'especially', 'during', 'these', 'first', 'few', 'months', 'as', 'she', 'learns', 'the', 'allocations', 'process', 'and', 'the', 'contracts', 'howard', 'will', 'continue', 'with', 'his', 'lead', 'responsibilites', 'within', 'the', 'group', 'and', 'be', 'available', 'for', 'questions', 'or', 'as', 'a', 'backup', 'if', 'necessary', 'thanks', 'howard', 'for', 'all', 'your', 'har d', 'work', 'on', 'the', 'account', 'this', 'year', 'in', 'the', 'initial', 'phases', 'of', 'this', 'transistion', 'i', 'would', 'l ike', 'to', 'organize', 'an', 'entex', 'account', 'team', 'the',

'team', 'members', 'from', 'front', 'office', 'to', 'back', 'office', 'would', 'meet', 'at', 'some', 'point', 'in', 'the', 'month', 'to', 'discuss', 'any', 'issues', 'relating', 'to', 'the', 'scheduling', 'allocations', 'settlements', 'contracts', 'deals', 'etc', 'this', 'hopefully', 'will', 'give', 'each', 'of', 'you', 'a', 'chance', 'to', 'not', 'only', 'identify', 'and', 'resolve', 'issues', 'before', 'the', 'finalization', 'process', 'but', 'to', 'learn', 'from', 'each', 'other', 'relative', 'to', 'your', 'respective', 'areas', 'and', 'allow', 'the', 'newcomers', 'to', 'get', 'up', 'to', 'speed', 'on', 'the', 'account', 'as', 'well', 'i', 'would', 'encourage', 'everyone', 'to', 'attend', 'these', 'meetings', 'initially', 'as', 'i', 'believe', 'this', 'is', 'a', 'critical', 'part', 'to', 'the', 'success', 'of', 'the', 'entex', 'account', 'i', 'will', 'have', 'my', 'assistant', 'to', 'coordinate', 'the', 'initial', 'meeting', 'for', 'early', '1', '2000', 'if', 'anyone', 'has', 'any', 'questions', 'or', 'concerns', 'please', 'feel', 'free', 'to', 'call', 'me', 'or', 'stop', 'by', 'thanks', 'in', 'advance', 'for', "everyone's", 'cooperation', 'julie', 'please', 'add', 'thu', 'to', 'the', 'confirmations', 'distributions', 'list']

['re', 'new', 'color', 'printer', 'monday', 'will', 'be', 'perfect', 'location', 'ebl', '944', 'b', 'r', 'c', '0011', 'co', '100038', 'thanks', 'kevin', 'moore', 'forwarded', 'by', 'kevin', 'g', 'moore', 'hou', 'ect', 'on', '12', '14', '99', '10', '44', 'am', 'enron', 'technology', 'from', 'lyn', 'malina', '12', '14', '99', '09', '22', 'am', 'to', 'kevin', 'g', 'moore', 'hou', 'ect', 'ect', 'cc', 'subject', 're', 'new', 'color', 'printer', 'i', 'will', 'order', 'today', 'for', 'delivery', 'on', 'monday', 'unless', 'you', 'need', 'faster', 'delivery', 'please', 'advise', 'co', 'rd', 'to', 'charge', 'against', 'thanks', 'lyn', 'kevin', 'g', 'moore', '12', '14', '99', '09', '21', 'am', 'to', 'lyn', 'malina', 'hou', 'ect', 'ect', 'cc', 'subject', 're', 'new', 'color', 'printer', 'forwarded', 'by', 'kevin', 'g', 'moore', 'hou', 'ect', 'on', '12', '14', '99', '09', '17', 'am', 'kevin', 'g', 'moore', '12', '14', '99', '08', '13', 'am', 'to', 'vince', 'j', 'kaminski', 'hou', 'ect', 'ect', 'mike', 'a', 'roberts', 'hou', 'ect', 'ect', 'cc', 'subject', 're', 'new', 'color', 'printer', 'yes', 'right', 'away', 'please', 'also', 'let', 'me', 'know', 'the', 'e', 't', 'a', 'thank', 's', 'lyn', 'kevin', 'moore']

['global', 'risk', 'management', 'operations', 'sally', 'congratulations', 'forwarded', 'by', 'cindy', 'olson', 'corp', 'enron', 'on', '01', '17', '2000', '09', '07', 'pm', 'from', 'rick', 'causey', '01', '17', '2000', '06', '04', 'pm', 'sent', 'by', 'enron', 'announcements', 'to', 'all', 'enron', 'worldwide', 'cc', 'subject', 'global', 'risk', 'management', 'operations', 'recognizing', 'enron', 's', 'increasing', 'worldwide', 'presence', 'in', 'the', 'wholesale', 'energy', 'business', 'and', 'the', 'need', 'to', 'insure', 'outstanding', 'internal', 'controls', 'for', 'all', 'of', 'our', 'risk', 'management', 'activities', 'regardless', 'of', 'location', 'a', 'global', 'risk', 'management', 'operations', 'function', 'has', 'been', 'created', 'under', 'the', 'direction', 'of', 'sally', 'w', 'beck', 'vice', 'president', 'in', 'this', 'role', 'sally', 'will', 'report', 'to', 'rick', 'causey', 'executive', 'vice', 'president', 'and', 'chief', 'accounting', 'officer', 'sally', 's', 'responsibilities', 'with', 'regard', 'to', 'global', 'ri

sk', 'management', 'operations', 'will', 'mirror', 'those', 'of', 'other', 'recently', 'created', 'enron', 'global', 'functions', 'in', 'this', 'role', 'sally', 'will', 'work', 'closely', 'with', 'all', 'enron', 'geographic', 'regions', 'and', 'wholesale', 'companies', 'to', 'insure', 'that', 'each', 'entity', 'receives', 'individualized', 'regional', 'support', 'while', 'also', 'focusing', 'on', 'the', 'following', 'global', 'responsibilities', '1', 'enhance', 'communication', 'among', 'risk', 'management', 'operations', 'professionals', '2', 'assure', 'the', 'proliferation', 'of', 'best', 'operational', 'practices', 'around', 'the', 'globe', '3', 'facilitate', 'the', 'allocation', 'of', 'human', 'resources', '4', 'provide', 'training', 'for', 'risk', 'management', 'operations', 'personnel', '5', 'coordinate', 'user', 'requirements', 'for', 'shared', 'operational', 'systems', '6', 'oversee', 'the', 'creation', 'of', 'a', 'global', 'internal', 'control', 'audit', 'plan', 'for', 'risk', 'management', 'activities', '7', 'establish', 'procedures', 'for', 'opening', 'new', 'risk', 'management', 'operations', 'offices', 'and', 'create', 'key', 'benchmarks', 'for', 'measuring', 'on', 'going', 'risk', 'controls', 'each', 'regional', 'operations', 'team', 'will', 'continue', 'its', 'direct', 'reporting', 'relationship', 'within', 'its', 'business', 'unit', 'and', 'will', 'collaborate', 'with', 'sally', 'in', 'the', 'delivery', 'of', 'these', 'critical', 'items', 'the', 'houston', 'based', 'risk', 'management', 'operations', 'team', 'under', 'sue', 'frusco', 's', 'leadership', 'which', 'currently', 'supports', 'risk', 'management', 'activities', 'for', 'south', 'america', 'and', 'australia', 'will', 'also', 'report', 'directly', 'to', 'sally', 'sally', 'retains', 'her', 'role', 'as', 'vice', 'president', 'of', 'energy', 'operations', 'for', 'enron', 'north', 'america', 'reporting', 'to', 'the', 'ena', 'office', 'of', 'the', 'chairman', 'she', 'has', 'been', 'in', 'her', 'current', 'role', 'over', 'energy', 'operations', 'since', '1997', 'where', 'she', 'manages', 'risk', 'consolidation', 'and', 'reporting', 'risk', 'management', 'administration', 'physical', 'product', 'delivery', 'confirmations', 'and', 'cash', 'management', 'for', 'ena', 's', 'physical', 'commodity', 'trading', 'energy', 'derivatives', 'trading', 'and', 'financial', 'products', 'trading', 'sally', 'has', 'been', 'with', 'enron', 'since', '1992', 'when', 'she', 'joined', 'the', 'company', 'as', 'a', 'manager', 'in', 'global', 'credit', 'prior', 'to', 'joining', 'enron', 'sally', 'had', 'four', 'years', 'experience', 'as', 'a', 'commercial', 'banker', 'and', 'spent', 'seven', 'years', 'as', 'a', 'registered', 'securities', 'principal', 'with', 'a', 'regional', 'investment', 'banking', 'firm', 'she', 'also', 'owned', 'and', 'managed', 'a', 'retail', 'business', 'for', 'several', 'years', 'please', 'join', 'me', 'in', 'supporting', 'sally', 'in', 'this', 'additional', 'coordination', 'role', 'for', 'global', 'risk', 'management', 'operations']

['what', 'do', 'you', 'want', 'to', 'know', 'today', 'a', 'man', 'with', 'a', 'new', 'idea', 'is', 'a', 'crank', 'until', 'he', 'succeeds', 'mark', 'twain', 'innovation', 'itself', 'is', 'nothing', 'new', 'the', 'word', 'comes', 'to', 'us', 'from', 'the', 'latin', 'innovatus', 'which', 'is', 'a', 'good', 'indication', 'of', 'how', 'long', 'the', 'concept', 'has', 'been', 'around', 'people', 'have', 'been', 'searching', 'for', 'the', 'next', 'big', 'thing',

'for', 'thousands', 'of', 'years', 'we', 'have', 'quite', 'a', 'tr
adition', 'of', 'innovation', 'here', 'at', 'enron', 'although',
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n', 'we', 'pride', 'ourselves', 'on', 'consistently', 'outpacing',
'our', 'peers', 'with', 'innovative', 'ideas', 'how', 'do', 'you',
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'new', 'century', 'what', 'will', 'be', 'our', 'next', 'big', 'thi
ng', 'put', 'your', 'best', 'foot', 'forward', 'visit', 'emeet',
'and', 'share', 'your', 'ideas', 'in', 'creativity', 'and', 'innov
ation', 'that', 'will', 'keep', 'enron', 'at', 'the', 'top']

['travel', 'i', 'will', 'be', 'out', 'of', 'the', 'office', 'thi
s', 'afternoon', 'friday', 'until', 'wednesday', 'night', 'i', 'wi
ll', 'be', 'available', 'on', 'my', 'cell', 'phone', '713', '306',
'6207', 'if', 'you', 'have', 'any', 'questions', 'please', 'feel',
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'have', 'been', 'cross', 'training', 'both', 'individuals', 'so',
'that', 'we', 'can', 'be', 'more', 'effective', 'in', 'addressin
g', 'var', 'and', 'trade', 'related', 'questions', 'thanks', 'fran
k', 'bharat', 'khanna', 'gas', 'ext', '54804', 'lacrechia', 'davenp
ort', 'ext', '35782']

['NA', 'great', 'specials', 'today', 'on', 'tramadol', 'phentermi
ne', '30', 'mg', '60', 'more', 'products', 'to', 'choose', 'from',
'http', 'wsc', 'settingt', '5', 'com', 'fp']

['entex', 'transistion', 'the', 'purpose', 'of', 'the', 'email',
'is', 'to', 'recap', 'the', 'kickoff', 'meeting', 'held', 'on', 'y
esterday', 'with', 'members', 'from', 'commercial', 'and', 'volum
e', 'managment', 'concernig', 'the', 'entex', 'account', 'effectiv
e', 'january', '2000', 'thu', 'nguyen', 'x', '37159', 'in', 'the',
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oward', 'and', 'thu', 'began', 'some', 'training', 'this', 'mont
h', 'and', 'will', 'continue', 'to', 'transition', 'the', 'accoun
t', 'over', 'the', 'next', 'few', 'months', 'entex', 'will', 'be',
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irst', 'few', 'months', 'as', 'she', 'learns', 'the', 'allocation
s', 'process', 'and', 'the', 'contracts', 'howard', 'will', 'conti
nue', 'with', 'his', 'lead', 'responsibilites', 'within', 'the',
'group', 'and', 'be', 'available', 'for', 'questions', 'or', 'as',
'a', 'backup', 'if', 'necessary', 'thanks', 'howard', 'for', 'al
l', 'your', 'hard', 'work', 'on', 'the', 'account', 'this', 'yea
r', 'in', 'the', 'initial', 'phases', 'of', 'this', 'transistion',
'i', 'would', 'like', 'to', 'organize', 'an', 'entex', 'account',
'team', 'the', 'team', 'members', 'from', 'front', 'office', 'to',
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he', 'month', 'to', 'discuss', 'any', 'issues', 'relating', 'to',
'the', 'scheduling', 'allocations', 'settlements', 'contracts', 'd
eals', 'etc', 'this', 'hopefully', 'will', 'give', 'each', 'of',
'you', 'a', 'chance', 'to', 'not', 'only', 'identify', 'and', 'res
olve', 'issues', 'before', 'the', 'finalization', 'process', 'bu
t', 'to', 'learn', 'from', 'each', 'other', 'relative', 'to', 'you
r', 'respective', 'areas', 'and', 'allow', 'the', 'newcomers', 't
o', 'get', 'up', 'to', 'speed', 'on', 'the', 'account', 'as', 'wel
l', 'i', 'would', 'encourage', 'everyone', 'to', 'attend', 'thes
e', 'meetings', 'initially', 'as', 'i', 'believe', 'this', 'is',

'a', 'critical', 'part', 'to', 'the', 'success', 'of', 'the', 'ent
ex', 'account', 'i', 'will', 'have', 'my', 'assistant', 'to', 'coo
rdinate', 'the', 'initial', 'meeting', 'for', 'early', '1', '200
0', 'if', 'anyone', 'has', 'any', 'questions', 'or', 'concerns',
'please', 'feel', 'free', 'to', 'call', 'me', 'or', 'stop', 'by',
'thanks', 'in', 'advance', 'for', "everyone's", 'cooperation', 'ju
lie', 'please', 'add', 'thu', 'to', 'the', 'confirmations', 'distr
ibutions', 'list']

['re', 'new', 'color', 'printer', 'this', 'is', 'the', 'color',
'printer', 'that', 'is', 'being', 'ordered', 'here', 'is', 'the',
'info', 'that', 'i', 'needed', 'thanks', 'kevin', 'moore', 'forwar
ded', 'by', 'kevin', 'g', 'moore', 'hou', 'ect', 'on', '12', '14',
'99', '08', '19', 'am', 'enron', 'technology', 'from', 'lyn', 'mal
ina', '12', '14', '99', '08', '09', 'am', 'to', 'kevin', 'g', 'moo
re', 'hou', 'ect', 'ect', 'cc', 'subject', 're', 'new', 'color',
'printer', 'kevin', 'the', 'color', 'printer', 'we', 'currently',
'order', 'is', 'the', '4500', 'n', 'for', '2753', '00', 'please',
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ld', 'like', 'to', 'order', 'thanks', 'lyn', 'kevin', 'g', 'moor
e', '12', '14', '99', '06', '29', 'am', 'to', 'lyn', 'malina', 'ho
u', 'ect', 'ect', 'cc', 'subject', 'new', 'color', 'printer', 'for
warded', 'by', 'kevin', 'g', 'moore', 'hou', 'ect', 'on', '12', '1
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'ect', 'vince', 'j', 'kaminski', 'hou', 'ect', 'ect', 'mike', 'a',
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'printer', 'we', 'are', 'in', 'need', 'of', 'a', 'new', 'color',
'printer', 'we', 'are', 'also', 'in', 'the', 'process', 'of', 'mov
ing', 'to', 'the', '19', 'th', 'floor', 'we', 'need', 'the', 'colo
r', 'printer', 'a', 's', 'a', 'p', 'if', 'you', 'would', 'please',
'i', 'need', 'information', 'concerning', 'this', 'matter', 'where
by', 'we', 'can', 'get', 'the', 'printer', 'ordered', 'and', 'deli
vered', 'to', 'our', 'new', 'location', 'thanks', 'kevin', 'moor
e']

['re', 'monday', 'blues', 'good', 'morning', "i'm", 'glad', 'to',
'hear', 'that', 'you', 'are', 'having', 'a', 'better', 'day', 'tod
ay', 'me', 'too', 'so', 'far', 'yeah', 'i', 'stayed', 'last', 'nig
ht', 'until', 'like', '7', '45', 'and', 'finished', 'up', 'that',
'stuff', 'with', 'mike', 'etringer', 'so', 'today', 'should', 'b
e', 'a', 'bit', 'more', 'chill', 'for', 'me', 'which', 'is', 'awes
ome', 'anyhow', 'i', 'hope', 'nothing', 'blows', 'up', 'over', 'th
ere', 'for', 'you', 'maybe', 'we', 'can', 'go', 'to', 'get', 'som
e', 'coffee', 'later', 'or', 'something', 'did', 'you', 'end', 'u
p', 'going', 'out', 'last', 'night', 'for', 'some', 'beers', 'i',
'watched', 'alli', 'mcbeal', 'and', 'ate', 'dinner', 'it', 'was',
'pretty', 'exciting']

['your', 'membership', 'community', 'charset', 'iso', '8859',
'1', 'your', 'membership', 'community', 'commentary', 'june', '2
9', '2001', "it's", 'all', 'about', 'making', 'money', 'informatio
n', 'to', 'provide', 'you', 'with', 'the', 'absolute', 'best', 'lo
w', 'and', 'no', 'cost', 'ways', 'of', 'providing', 'traffic', 't
o', 'your', 'site', 'helping', 'you', 'to', 'capitalize', 'on', 't
he', 'power', 'and', 'potential', 'the', 'web', 'brings', 'to', 'e
very', 'net', 'preneur', 'this', 'issue', 'contains', 'sites', 'wh

o', 'will', 'trade', 'links', 'with', 'you', 'in', 'this', 'issue', '32', 'easy', 'ways', 'to', 'breath', 'new', 'life', 'into', 'any', 'webpage', 'member', 'showcase', 'are', 'you', 'ready', 'for', 'your', '15', 'minutes', 'of', 'fame', 'win', 'a', 'free', 'ad', 'in', 'community', 'commentary', "today's", 'special', 'announcement', 'we', 'can', 'help', 'you', 'become', 'an', 'internet', 'service', 'provider', 'within', '7', 'days', 'or', 'we', 'will', 'give', 'you', '100', '00', 'click', 'here', 'we', 'have', 'already', 'signed', '300', 'isps', 'on', 'a', '4', 'year', 'contract', 'see', 'if', 'any', 'are', 'in', 'your', 'town', 'at', 'click', 'here', 'you', 'are', 'a', 'member', 'in', 'at', 'least', 'one', 'of', 'these', 'programs', 'you', 'should', 'be', 'in', 'them', 'all', 'bannersgomlm', 'com', 'profitbanners', 'com', 'cashpromotions', 'com', 'mysiteinc', 'com', 'timshometownstories', 'com', 'freelinksnetwork', 'com', 'myshoppingplace', 'com', 'bannerco', 'op', 'com', 'putpeel', 'com', 'putpeel', 'net', 'sellinternetaccess', 'com', 'be', 'your', 'own', 'isp', 'com', 'seventhpower', 'com', '32', 'easy', 'ways', 'to', 'breath', 'new', 'life', 'into', 'any', 'webpage', "it's", 'true', 'ask', 'the', 'ceos', 'of', 'yahoo', 'com', 'and', 'america', 'online', "they'll", 'tell', 'you', "it's", 'true', 'send', 'an', 'email', 'to', 'terry', 'dean', 'or', 'allen', 'says', 'or', 'jim', 'daniels', 'and', 'ask', 'them', 'about', 'it', "they'll", 'agree', '100', 'that', "it's", 'true', "don't", 'just', 'take', 'my', 'word', 'for', 'it', 'in', 'fact', 'you', 'can', 'contact', 'any', 'of', 'the', '10', '000', 'folks', 'online', 'selling', 'web', 'marketing', 'resources', 'and', 'they', 'will', 'all', 'tell', 'you', 'emphatically', 'without', 'question', 'no', 'doubts', 'whatsoever', 'that', 'it', 'is', 'absolutely', 'true', "it's", 'true', 'anyone', 'can', 'earn', 'a', 'living', 'online', 'really', 'they', 'can', 'but', 'it', 'takes', 'several', 'very', 'important', 'components', 'to', 'join', 'the', '5', 'who', 'are', 'successful', 'on', 'the', 'web', 'one', 'of', 'those', 'necessities', 'is', 'a', 'website', 'now', 'your', 'website', 'does', 'one', 'of', 'two', 'things', 'it', 'either', 'makes', 'the', 'sale', 'or', 'it', "doesn't", 'for', '95', 'of', 'online', 'businesses', 'their', 'websites', 'simply', 'do', 'not', 'produce', 'results', 'and', 'there', 'is', 'a', 'very', 'simple', 'reason', 'for', 'poor', 'performance', 'poor', 'sales', 'letters', 'does', 'your', 'website', 'convince', 'people', 'to', 'make', 'a', 'purchase', 'if', 'not', 'here', 'are', '32', 'easy', 'ways', 'to', 'breathe', 'new', 'life', 'into', 'your', 'sales', 'letter', '1', 'write', 'your', 'sales', 'letter', 'with', 'an', 'individual', 'in', 'mind', 'go', 'ahead', 'and', 'pick', 'out', 'someone', 'a', 'real', 'person', 'to', 'write', 'your', 'sales', 'letter', 'to', "doesn't", 'matter', 'if', 'it', 'is', 'grandma', 'or', 'your', 'next', 'door', 'neighbor', 'or', 'your', 'cat', 'write', 'your', 'sales', 'letter', 'just', 'like', 'you', 'are', 'writing', 'it', 'to', 'them', 'personally', 'why', 'because', 'when', 'your', 'potential', 'customer', 'reads', 'it', 'then', 'it', 'will', 'seem', 'personal', 'almost', 'like', 'you', 'wrote', 'it', 'with', 'them', 'in', 'mind', 'too', 'often', 'sales', 'letters', 'are', 'written', 'as', 'if', 'they', 'were', 'going', 'to', 'be', 'read', 'to', 'an', 'audience', 'rather', 'than', 'one', 'person', 'keep', 'your', 'sales', 'letters', 'personal', 'because', 'one', 'person', 'a

t', 'a', 'time', 'is', 'going', 'to', 'read', 'them', '2', 'use', 'an', 'illustration', 'to', 'get', 'your', 'point', 'across', 'in', 'my', 'sales', 'letters', 'i', 'have', 'told', 'stories', 'about', 'my', 'car', 'stalling', 'on', 'the', 'side', 'of', 'the', 'road', 'to', 'illustrate', 'the', 'idea', 'that', 'we', 'must', 'constantly', 'add', 'the', 'fuel', 'of', 'advertising', 'to', 'keep', 'our', 'businesses', 'running', 'i', 'have', 'compared', 'the', 'hype', 'of', 'easily', 'making', 'millions', 'online', 'to', 'the', 'chances', 'of', 'me', 'riding', 'bareback', 'across', 'montana', 'on', 'a', 'grizzly', 'bear', 'leads', 'have', 'read', 'of', 'how', 'getting', 'to', 'the', 'top', 'of', 'an', 'oak', 'tree', 'relates', 'to', 'aggressively', 'marketing', 'online', 'people', 'love', 'a', 'good', 'story', 'that', 'pounds', 'home', 'a', 'solid', 'message', 'tell', 'stories', 'that', 'illustrate', 'a', 'point', 'you', 'are', 'trying', 'to', 'make', 'emphasize', 'a', 'benefit', 'by', 'sharing', 'an', 'account', 'from', 'the', 'real', 'world', 'it', 'effectively', 'creates', 'interest', 'and', 'further', 'establishes', 'the', 'point', '3', 'create', 'an', 'interest', 'in', 'the', 'reader', 'from', 'the', 'very', 'first', 'line', 'your', 'first', 'line', 'of', 'the', 'sales', 'letter', 'should', 'immediately', 'create', 'a', 'desire', 'in', 'the', 'reader', 'to', 'want', 'to', 'know', 'more', 'go', 'back', 'to', 'the', 'beginning', 'of', 'this', 'article', 'the', 'first', 'words', 'we're', "it's", 'true', 'i', 'can', 'guarantee', 'you', 'that', 'either', 'consciously', 'or', 'subconsciously', 'you', 'thought', "what's", 'true', 'immediately', 'your', 'mind', 'wanted', 'to', 'know', 'what', 'i', 'was', 'talking', 'about', 'before', 'you', 'even', 'knew', 'it', 'you', 'were', 'right', 'here', '8', 'paragraphs', 'into', 'this', 'article', 'carefully', 'craft', 'your', 'first', 'line', 'if', 'you', 'can', 'immediately', 'get', 'them', 'wanting', 'to', 'know', 'more', "you've", 'got', 'a', 'winner', '4', 'use', 'bullets', 'people', 'spend', 'a', 'lot', 'of', 'time', 'reading', 'bulleted', 'lists', 'in', 'fact', 'they', 'often', 'reread', 'them', 'over', 'and', 'over', 'use', 'bulleted', 'lists', 'to', 'stress', 'the', 'benefits', 'of', 'your', 'product', 'or', 'service', 'to', 'spell', 'out', 'exactly', 'what', 'is', 'included', 'in', 'your', 'offer', 'use', 'an', 'extra', 'space', 'in', 'between', 'each', 'bullet', 'to', 'really', 'highlight', 'each', 'line', 'and', 'create', 'a', 'sense', 'of', 'more', 'length', 'to', 'the', 'list', '5', 'launch', 'into', 'a', 'bullet', 'list', 'immediately', 'shortly', 'after', 'your', 'opening', 'line', 'immediately', 'give', 'the', 'reader', 'a', 'bullet', 'list', 'of', 'benefits', 'to', 'absorb', 'hit', 'them', 'with', 'your', 'best', 'shot', 'pull', 'out', 'the', 'big', 'guns', 'and', 'stress', 'just', 'a', 'few', 'of', 'the', 'most', 'important', 'things', 'the', 'reader', 'will', 'discover', 'by', 'offering', 'a', 'killer', 'list', 'early', 'in', 'your', 'sales', 'letter', 'you', 'will', 'automatically', 'create', 'a', 'desire', 'in', 'the', 'reader', 'to', 'continue', 'through', 'your', 'ad', 'copy', 'after', 'all', 'if', 'they', 'are', 'already', 'interested', 'after', 'the', 'first', 'list', 'of', 'benefits', 'they', 'will', 'certainly', 'be', 'open', 'to', 'finding', 'out', 'even', 'more', 'reasons', 'why', 'your', 'product', 'or', 'service', 'will', 'aid', 'them', '6', 'just', 'let', 'it', 'all', 'flow', 'out', 'write', 'down', 'everything

g', 'that', 'enters', 'your', 'mind', 'as', 'you', 'are', 'writing', 'your', 'sales', 'letter', 'you', 'can', 'edit', 'it', 'later', 'if', 'you', 'just', 'sit', 'and', 'start', 'writing', 'everything', 'you', 'know', 'about', 'your', 'product', 'or', 'service', 'and', 'how', 'it', 'will', 'benefit', 'your', 'customer', 'you', 'will', 'be', 'amazed', 'at', 'how', 'much', 'information', 'floods', 'your', 'mind', 'write', 'it', 'all', 'down', 'then', 'read', 'through', 'it', "you'll", 'be', 'able', 'to', 'add', 'a', 'lot', 'more', 'detail', 'to', 'many', 'of', 'the', 'points', 'edit', 'it', 'after', 'you', 'have', 'exhausted', 'all', 'of', 'your', 'ideas', '7', 'make', 'your', 'sales', 'letter', 'personal', 'make', 'sure', 'that', 'the', 'words', 'you', 'and', 'your', 'are', 'at', 'least', '4', '1', 'over', 'i', 'and', 'my', 'your', 'ad', 'copy', 'must', 'be', 'written', 'about', 'your', 'customer', 'not', 'yourself', "i'm", 'not', 'sure', 'how', 'the', 'old', 'advertising', 'adage', 'goes', 'but', "it's", 'something', 'like', 'this', 'i', "don't", 'care', 'a', 'thing', 'about', 'your', 'lawn', 'mower', 'i', 'just', 'care', 'about', 'my', 'lawn', 'leads', "aren't", 'interested', 'in', 'you', 'or', 'your', 'products', 'they', 'are', 'interested', 'in', 'themselves', 'and', 'their', 'wants', 'and', 'needs', 'when', 'you', 'are', 'finished', 'with', 'your', 'sales', 'letter', 'and', 'have', 'uploaded', 'it', 'to', 'a', 'test', 'webpage', 'run', 'a', 'check', 'at', 'http', 'www', 'keywordcount', 'com', 'and', 'see', 'what', 'the', 'ratio', 'between', 'you', 'and', 'your', 'versus', 'references', 'to', 'i', 'me', 'my', 'etc', "it's", 'a', 'free', 'service', 'make', 'sure', "it's", 'at', 'least', '4', '1', 'in', 'favor', 'of', 'the', 'customer', '8', 'write', 'like', 'you', 'speak', 'forget', 'all', 'of', 'those', 'rules', 'that', 'your', 'grammar', 'teacher', 'taught', 'you', 'write', 'your', 'sales', 'letters', 'in', 'everyday', 'language', 'just', 'like', 'you', 'would', 'talk', 'in', 'person', "don't", 'be', 'afraid', 'to', 'begin', 'sentences', 'with', 'and', 'or', 'because', "don't", 'worry', 'about', 'ending', 'a', 'sentence', 'with', 'a', 'preposition', 'write', 'like', 'you', 'speak', 'your', 'sales', 'letter', "isn't", 'the', 'great', 'american', 'novel', 'so', "don't", 'write', 'it', 'like', 'you', 'are', 'ernest', 'hemingway', '9', 'use', 'short', 'paragraphs', 'consisting', 'of', '2', '4', 'sentences', 'each', 'long', 'copy', 'works', 'but', 'long', 'paragraphs', 'do', 'not', 'use', 'short', 'paragraphs', 'that', 'lead', 'into', 'the', 'next', 'paragraph', "don't", 'be', 'afraid', 'to', 'use', 'short', 'sentences', 'like', 'this', 'one', 'or', 'this', 'see', 'what', 'i', 'mean', 'shorter', 'paragraphs', 'keep', 'the', 'interest', 'of', 'the', 'reader', 'longer', 'paragraphs', 'cause', 'eye', 'strain', 'and', 'often', 'force', 'the', 'reader', 'to', 'get', 'distracted', '10', 'stress', 'the', 'benefits', 'not', 'the', 'features', 'again', 'readers', 'want', 'the', 'burning', 'question', 'answered', "what's", 'in', 'it', 'for', 'me', 'what', 'need', 'is', 'it', 'going', 'to', 'meet', 'what', 'want', 'is', 'it', 'going', 'to', 'fill', 'how', 'is', 'your', 'product', 'or', 'service', 'going', 'to', 'be', 'of', 'value', 'or', 'benefit', 'to', 'the', 'reader', 'spell', 'it', 'out', "don't", 'focus', 'on', 'the', 'features', 'of', 'your', 'product', 'or', 'service', 'but', 'rather', 'how', 'those', 'features', 'will', 'add', 'value', 'to', 'the', 'life', 'of', 'your', 'reader', 'for',

'example', 'if', 'you', 'are', 'selling', 'automobile', 'tires', 'you', 'may', 'very', 'well', 'have', 'the', 'largest', 'assortment', 'of', 'tires', 'in', 'the', 'world', 'but', 'who', 'cares', 'i', 'don't', 'care', 'about', 'your', 'selection', 'but', 'i', 'do', 'care', 'about', 'keeping', 'my', '3', 'month', 'old', 'baby', 'girl', 'safe', 'while', 'we', 'are', 'traveling', 'so', 'instead', 'of', 'focusing', 'on', 'your', 'selection', 'you', 'focus', 'on', 'the', 'fact', 'that', 'my', 'baby', 'girl', 'can', 'be', 'kept', 'safe', 'because', 'you', 'have', 'a', 'tire', 'that', 'will', 'fit', 'my', 'car', 'you're', 'not', 'selling', 'tires', 'you're', 'selling', 'safety', 'for', 'my', 'family', 'stress', 'the', 'benefits', 'not', 'the', 'features', 'I'll', 'keep', 'the', 'reader', 'interested', 'some', 'sales', 'letters', 'read', 'like', 'they', 'are', 'a', 'manual', 'trying', 'to', 'explain', 'to', 'me', 'how', 'i', 'can', 'perform', 'some', 'complicated', 'surgery', 'on', 'my', 'wife', 'they', 'are', 'filled', 'with', 'words', 'and', 'phrases', 'that', 'i', 'need', 'a', 'dictionary', 'to', 'understand', 'unless', 'you', 'are', 'writing', 'to', 'a', 'very', 'targeted', 'audience', 'avoid', 'using', 'technical', 'language', 'that', 'many', 'readers', 'might', 'not', 'understand', 'keep', 'it', 'simple', 'using', 'words', 'language', 'and', 'information', 'that', 'are', 'easy', 'to', 'understand', 'and', 'follow', '12', 'target', 'your', 'sales', 'letter', 'when', 'you', 'are', 'finished', 'with', 'your', 'final', 'draft', 'of', 'the', 'sales', 'letter', 'target', 'it', 'to', 'a', 'specific', 'audience', 'for', 'example', 'if', 'you', 'are', 'selling', 'a', 'work', 'at', 'home', 'product', 'then', 'rewrite', 'the', 'sales', 'letter', 'by', 'adding', 'words', 'in', 'the', 'headlines', 'and', 'ad', 'copy', 'that', 'are', 'targeted', 'towards', 'women', 'who', 'are', 'homemakers', 'then', 'rewrite', 'the', 'same', 'sales', 'letter', 'and', 'target', 'it', 'to', 'college', 'students', 'write', 'another', 'letter', 'targeting', 'senior', 'citizens', 'still', 'another', 'could', 'be', 'written', 'to', 'high', 'school', 'teachers', 'wanting', 'to', 'earn', 'extra', 'income', 'during', 'summer', 'vacation', 'the', 'possibilities', 'are', 'endless', 'all', 'you', 'need', 'to', 'do', 'is', 'add', 'a', 'few', 'words', 'here', 'and', 'there', 'in', 'your', 'ad', 'copy', 'to', 'make', 'it', 'appear', 'that', 'your', 'product', 'or', 'service', 'is', 'specifically', 'designed', 'for', 'a', 'target', 'audience', 'work', 'only', '5', 'hours', 'a', 'week', 'would', 'become', 'college', 'students', 'work', 'only', '5', 'hours', 'a', 'week', 'your', 'sales', 'letter', 'is', 'now', 'targeted', 'upload', 'all', 'of', 'the', 'sales', 'letters', 'to', 'separate', 'pages', 'on', 'your', 'website', 'you', 'could', 'easily', 'target', '100's', 'of', 'groups', 'then', 'simply', 'advertise', 'the', 'targeted', 'pages', 'in', 'targeted', 'mediums', 'you', 'could', 'advertise', 'the', 'college', 'students', 'page', 'in', 'a', 'campus', 'e-zine', 'the', 'senior', 'citizens', 'page', 'could', 'be', 'advertised', 'at', 'a', 'retirement', 'community', 'message', 'board', 'by', 'creating', 'these', 'targeted', 'sales', 'letters', 'you', 'can', 'literally', 'open', 'up', 'dozens', 'of', 'new', 'groups', 'to', 'sell', 'your', 'existing', 'product', 'to', 'and', 'in', 'their', 'eyes', 'it', 'looks', 'like', 'the', 'product', 'was', 'a', 'match', 'made', 'for', 'them', '13', 'make', 'your', 'ad', 'copy', 'easy', 't

o', 'follow', 'use', 'short', 'sentences', 'and', 'paragraphs', 'break', 'up', 'the', 'sales', 'letter', 'with', 'attention', 'grabbing', 'headlines', 'that', 'lead', 'into', 'the', 'next', 'paragraph', 'one', 'thing', 'that', 'i', 'have', 'always', 'found', 'to', 'work', 'very', 'well', 'in', 'sales', 'letters', 'is', 'to', 'use', 'a', 'pause', 'like', 'this', 'start', 'the', 'sentence', 'on', 'one', 'line', 'leaving', 'the', 'reader', 'wanting', 'to', 'know', 'more', 'and', 'then', 'finishing', 'up', 'on', 'the', 'next', 'line', 'also', 'if', 'you', 'are', 'going', 'to', 'use', 'a', 'sales', 'letter', 'that', 'continues', 'on', 'several', 'different', 'pages', 'of', 'your', 'website', 'use', 'a', 'catchy', 'hook', 'line', 'at', 'the', 'end', 'of', 'each', 'page', 'to', 'keep', 'them', 'clicking', "let's", 'get', 'you', 'started', 'down', 'the', 'road', 'to', 'success', 'shall', 'we', 'click', 'here', 'to', 'continue', '14', 'use', 'similes', 'and', 'metaphors', 'for', 'effect', 'when', 'the', 'customer', 'purchases', 'your', 'product', 'they', 'will', 'generate', 'a', 'flood', 'of', 'traffic', 'that', 'would', 'make', 'noah', 'start', 'building', 'another', 'ark', 'if', 'they', 'do', 'not', 'order', 'today', 'then', 'they', 'will', 'feel', 'like', 'a', 'cat', 'that', 'let', 'the', 'mouse', 'get', 'away', 'use', 'words', 'to', 'create', 'a', 'picture', 'in', 'the', "readers'mind", 'when', 'you', 'think', 'of', 'superman', 'what', 'comes', 'to', 'mind', 'immediately', 'we', 'remember', 'that', 'he', 'is', 'faster', 'than', 'a', 'speeding', 'bullet', 'more', 'powerful', 'than', 'a', 'locomotive', 'able', 'to', 'leap', 'tall', 'buildings', 'in', 'a', 'single', 'bound', 'see', 'how', 'word', 'pictures', 'stick', 'in', 'our', 'minds', '15', 'focus', 'on', 'one', 'product', 'or', 'service', "don't", 'try', 'to', 'sell', 'your', 'customer', 'multiple', 'products', 'at', 'the', 'same', 'time', 'it', 'only', 'confuses', 'the', 'reader', 'keep', 'your', 'ad', 'copy', 'directed', 'at', 'one', 'specific', 'product', 'or', 'service', 'then', 'use', 'other', 'products', 'and', 'services', 'as', 'back', 'end', 'products', '16', 'make', 'it', 'stand', 'out', "don't", 'kid', 'yourself', 'there', 'are', 'hundreds', 'maybe', 'thousands', 'out', 'there', 'on', 'the', 'web', 'doing', 'the', 'same', 'thing', 'you', 'are', 'doing', 'how', 'will', 'you', 'stand', 'out', 'among', 'the', 'crowd', 'your', 'sales', 'letter', 'must', 'inject', 'personality', 'it', 'must', 'breathe', 'of', 'originality', 'your', 'product', 'or', 'service', 'is', 'different', "it's", 'not', 'like', 'all', 'of', 'the', 'rest', 'it', 'is', 'unique', 'right', 'your', 'sales', 'letter', 'must', 'separate', 'you', 'from', 'the', 'competition', 'it', 'must', 'create', 'a', 'feeling', 'of', 'you', "won't", 'find', 'this', 'anywhere', 'else', '17', 'be', 'believable', 'earn', '54', '000', 'in', 'the', 'next', '24', 'hours', 'delete', 'good', 'grief', 'do', 'they', 'think', 'i', 'am', 'an', 'idiot', 'or', 'something', 'get', 'real', "don't", 'make', 'outrageous', 'claims', 'that', 'are', 'obviously', 'not', 'the', 'truth', "you'll", 'ruin', 'your', 'reputation', 'let', 'me', 'tell', 'you', 'a', 'simple', 'universal', 'fact', 'that', 'cannot', 'be', 'reversed', 'once', 'you', 'have', 'been', 'branded', 'a', 'liar', 'you', 'will', 'never', 'be', 'anything', 'but', 'a', 'liar', 'it', "doesn't", 'matter', 'if', 'you', 'launch', 'the', 'most', 'respectable', 'honest', 'business', 'available', 'anywhere', 'people', 'will', 'always', 'have',

'doubt', 'because', 'they', 'remember', 'the', 'crazy', 'stuff',
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te', 'mislead', 'stretch', 'or', 'distort', 'the', 'truth', '18',
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ut', 'rather', 'be', 'exact', 'instead', 'of', 'over', '100', 'tip
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g', 'weight', 'by', 'generalizing', 'information', 'it', 'create
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tific', 'advertising', 'they', 'leave', 'no', 'impression', 'whats
oever', '19', 'be', 'complete', 'tell', 'the', 'reader', 'everythi
ng', 'they', 'would', 'want', 'to', 'know', 'about', 'your', 'prod
uct', 'or', 'service', 'answer', 'all', 'of', 'their', 'question
s', 'anything', 'they', 'would', 'want', 'to', 'consider', 'befor
e', 'making', 'a', 'purchase', 'think', 'about', 'it', 'from', 'th
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estimonials', 'to', 'boost', 'your', 'sales', 'share', 'actual',
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bsites', 'have', 'an', 'entire', 'section', 'or', 'even', 'a', 'se
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h', 'you', 'will', 'want', 'to', 'spend', 'as', 'much', 'time', 'w
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t', 'sound', 'great', 'would', 'you', 'like', 'to', 'be', 'as', 's
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['re', 'new', 'color', 'printer', 'sorry', "don't", 'we', 'need', 'to', 'know', 'the', 'cost', 'as', 'well', 'forwarded', 'by', 'kevin', 'g', 'moore', 'hou', 'ect', 'on', '12', '14', '99', '08', '15', 'am', 'kevin', 'g', 'moore', '12', '14', '99', '08', '09', 'a

m', 'to', 'shirley', 'crenshaw', 'hou', 'ect', 'ect', 'mike', 'a', 'roberts', 'hou', 'ect', 'ect', 'cc', 'subject', 're', 'new', 'color', 'printer', 'this', 'information', 'was', 'also', 'sent', 'to', 'it', 'purchasing', 'i', 'need', 'to', 'know', 'what', 'options', 'we', 'have', 'and', 'how', 'soon', 'it', 'can', 'be', 'delivered', "don't", 'we', 'need', 'to', 'know', 'as', 'well', 'before', 'purchase', 'i', 'also', 'need', 'a', 'central', 'location', 'for', 'this', 'printer', 'thanks', 'kevin', 'moore', 'sam', 'mentioned', 'hp', '4500', 'i', 'will', 'check', 'into', 'it', 'forwarded', 'by', 'kevin', 'g', 'moore', 'hou', 'ect', 'on', '12', '14', '99', '08', '05', 'am', 'shirley', 'crenshaw', '12', '14', '99', '07', '55', 'am', 'to', 'kevin', 'g', 'moore', 'hou', 'ect', 'ect', 'cc', 'subject', 're', 'new', 'color', 'printer', 'kevin', 'what', 'kind', 'of', 'information', 'do', 'you', 'need', 'i', 'thought', 'you', 'were', 'going', 'to', 'look', 'at', 'some', 'colored', 'printer', 'literature', 'sam', 'seemed', 'to', 'be', 'aware', 'of', 'a', 'colored', 'printer', 'that', 'might', 'work', 'for', 'us', 'ask', 'him', 'i', "don't", 'think', 'we', 'need', 'anything', 'as', 'big', 'as', 'sapphire', 'it', 'will', 'be', 'located', 'in', 'your', 'area', 'on', 'the', '19', 'th', 'floor', 'thanks', 'kevin', 'g', 'moore', '12', '14', '99', '06', '27', 'am', 'to', 'shirley', 'crenshaw', 'hou', 'ect', 'ect', 'vince', 'j', 'kaminski', 'hou', 'ect', 'ect', 'mike', 'a', 'roberts', 'hou', 'ect', 'ect', 'cc', 'subject', 'new', 'color', 'printer', 'we', 'are', 'in', 'need', 'of', 'a', 'new', 'color', 'printer', 'we', 'are', 'also', 'in', 'the', 'process', 'of', 'moving', 'to', 'the', '19', 'th', 'floor', 'we', 'need', 'the', 'color', 'printer', 'a', 's', 'a', 'p', 'if', 'you', 'would', 'please', 'i', 'need', 'information', 'concerning', 'this', 'matter', 'whereby', 'we', 'can', 'get', 'the', 'printer', 'ordered', 'and', 'delivered', 'to', 'our', 'new', 'location', 'thanks', 'kevin', 'moore']

['lst', 'rev', 'dec', '1999', 'josey', 'ranch', 'nom', 'fyi', 'forwarded', 'by', 'susan', 'd', 'trevino', 'hou', 'ect', 'on', '12', '15', '99', '08', '40', 'am', 'bob', 'withers', 'on', '12', '14', '99', '05', '11', '06', 'pm', 'to', 'susan', 'd', 'trevino', 'hou', 'ect', 'ect', 'cc', 'stretch', 'brennan', 'kevin', 'mclarney', 'taylor', 'vance', 'e', 'mail', 'subject', 'lst', 'rev', 'dec', '1999', 'josey', 'ranch', 'nom', 'susan', 'as', 'we', 'discussed', 'this', 'change', 'was', 'missed', 'but', 'was', 'discussed', 'with', 'you', 'last', 'week', 'i', 'apologize', 'for', 'the', 'omission', 'i', 'am', 'checking', 'with', 'my', 'field', 'personnel', 'and', 'anticipate', 'a', 'further', 'reduction', 'due', 'to', 'well', 'production', 'decreases', 'effective', '12', '15', 'which', 'i', 'will', 'send', 'under', 'a', 'separate', 'email', 'for', 'an', 'intra', 'day', 'change', 'wednesday', "here's", 'revised', 'december', '1999', 'effective', '12', '9', '99', 'setup', 'for', 'josey', 'using', '1', '081', 'btu', 'mcf', 'gas', 'deliveries', 'into', 'hpl', '12', '300', 'mmbtu', 'd', 'for', 'kri', 'net', 'reduction', 'of', '1', '000', 'mmbtu', 'd', '12', '300', 'mmbtu', 'd', 'into', 'hpl', 'bob', 'withers', 'kcs', 'energy', '5555', 'san', 'felipe', 'suite', '1200', 'houston', 'tx', '77056', 'voice', 'mail', 'page', '713', '964', '9434']

['correction', 'conference', 'call', 'on', 'tuesday', 'february', '13', '800', '229', '028', '1', 'ssb', 'conference', 'call', 'tues

day', 'february', '13', '2001', '2', '00', 'pm', 'est', 'beyond', 'california', 'the', 'power', 'however', 'the', 'markets', 'foretell', 'stronger', 'prices', 'across', 'the', 'country', 'in', '2001', 'we', 'continue', 'to', 'recommend', 'the', 'power', 'producers', 'based', 'on', 'both', 'our', 'power', 'price', 'and', 'spark', 'spread', 'analyses', 'which', 'show', 'strengthening', 'spark', 'spreads', 'in', 'the', 'united', 'states', 'despite', 'the', 'record', 'highs', 'recently', 'seen', 'in', 'the', 'natural', 'gas', 'markets', 'we', 'highlight', 'calpine', 'nrg', 'energy', 'and', 'mirant', 'our', 'volatility', 'indices', 'demonstrate', 'a', 'dramatic', 'shift', 'in', 'historical', 'volatility', 'to', 'the', 'western', 'hubs', 'and', 'away', 'from', 'the', 'midwestern', 'markets', 'of', '1998', '99', 'we', 'expect', 'volatility', 'to', 'persist', 'in', 'the', 'west', 'likely', 'accompanied', 'by', 'higher', 'volatility', 'in', 'the', 'remainder', 'of', 'the', 'country', 'in', '2001', 'this', 'benefits', 'energy', 'merchants', 'and', 'we', 'highlight', 'enron', 'dynegey', 'duke', 'and', 'el', 'paso', 'dial', 'in', '800', '229', '0281', 'us', '706', '645', '9237', 'intl', 'replay', '800', '642', '1687', 'us', '706', '645', '9291', 'intl', 'reservation', '735670', 'replay', 'until', '2', '15', 'hosted', 'by', 'raymond', 'niles', 'director', 'power', 'natural', 'gas', 'research', 'salomon', 'smith', 'barney', '212', '816', '2086', 'raymond', 'c', 'niles', 'power', 'natural', 'gas', 'research', 'salomon', 'smith', 'barney', '212', '816', '2807', 'ray', 'niles', 'ssmb', 'com', 's']

['new', 'accounts', '2', 'c', '6', 'e', 'this', 'is', 'a', 'mime', 'message', 'content', 'type', 'multipart', 'alternative', 'boundary', '_nextpart_001_0080_01', 'bdf', '6', 'c', '7', 'fabaclbo', 'content', 'type', 'text', 'plain', 'charset', 'iso', '8859', '1', 'content', 'transfer', 'encoding', 'quoted', 'printable', 'this', 'is', 'an', 'html', 'message', 'content', 'type', 'text', 'html', 'charset', 'iso', '8859', '1', 'content', 'transfer', 'encoding', 'quoted', 'printable', 'complete', 'credit', 'card', 'processing', 'systems', 'for', 'your', 'business', '2', 'e', 'interne', 't', 'home', 'based', 'mail', 'order', 'phone', 'order', 'do', 'you', 'accept', 'credit', 'cards', 'your', 'competition', 'does', 'everyone', 'approved', 'credit', 'problems', 'ok', 'approval', 'in', 'less', 'than', '24', 'hours', 'increase', 'your', 'sales', 'by', '300', 'start', 'accepting', 'credit', 'cards', 'on', 'your', 'website', 'free', 'information', 'no', 'risk', '100', 'confidential', '2', 'e', 'your', 'name', 'and', 'information', 'will', 'not', 'be', 'sold', 'to', 'third', 'parties', 'home', 'businesses', 'ok', 'phone', 'mail', 'order', 'ok', 'no', 'application', 'fee', 'no', 'setup', 'fee', 'close', 'more', 'impulse', 'sales', 'everyone', 'approved', 'good', 'credit', 'or', 'bad', 'to', 'apply', 'today', 'please', 'fill', 'out', 'the', 'express', 'form', 'below', '2', 'e', 'it', 'contains', 'all', 'the', 'information', 'we', 'need', 'to', 'get', 'your', 'account', 'approved', '2', 'e', 'for', 'a', 'real's', 'that', 'do', 'not', 'apply', 'to', 'you', 'please', 'put', 'n', 'a', 'in', 'the', 'box', '2', 'e', 'upon', 'receipt', 'we'll', 'fax', 'you', 'with', 'all', 'of', 'the', 'all', 'bank', 'card', 'application', 'documents', 'necessary', 'to', 'establish', 'your', 'merchant', 'account', '2', 'e', 'once', 'returned', 'we', 'can', 'have', 'your', 'account', 'approved', 'within', '24', 'hou

rs', '2', 'e', 'service', 'industry', 'standard', 'us', 'site', 'inspection', '50', '75', 'free', 'shipping', '50', '75', 'free', 'warranty', '10', 'per', 'month', 'free', 'sales', 'receipts', '10', '50', 'free', 'fraud', 'screening', '2', 'e', '50', '1', '2', 'e', 'o', '0', 'per', 'transaction', 'free', 'amex', 'set', 'up', '50', '75', 'free', '24', 'hourhelp', 'line', '10', 'month', 'free', 'security', 'bond', '5000', '10', '00', '0', 'or', 'more', 'none', 'this', 'is', 'a', 'no', 'obligation', 'qualification', 'form', 'and', 'is', 'your', 'first', 'step', 'to', 'accepting', 'credit', 'cards', '2', 'e', 'by', 'filling', 'out', 'this', 'form', 'you', 'will', 'not', 'enter', 'in', 'to', 'any', 'obligations', 'o', 'r', 'contracts', 'with', 'us', '2', 'e', 'we', 'will', 'use', 'it', 'to', 'determine', 'the', 'best', 'p', 'rogram', 'to', 'offer', 'you', 'based', 'on', 'the', 'information', 'you', 'provide', '2', 'e', 'you', 'will', 'be', 'c', 'ontacted', 'by', 'one', 'of', 'our', 'representatives', 'within', '1', '2', 'business', 'days', 'to', 'go', 'over', 'the', 'rest', 'of', 'your', 'account', 'set', 'up', '2', 'e', 'note', 'all', 'information', 'provided', 'to', 'us', 'will', 'remain', '100', 'confidential', 'apply', 'free', 'with', 'no', 'risk', 'pleas', 'e', 'fill', 'out', 'the', 'express', 'application', 'form', 'completely', '2', 'eincomplete', 'information', 'm', 'ay', 'prevent', 'us', 'from', 'properly', 'processing', 'your', 'application', '2', 'e', 'your', 'full', 'email', '1', 'address', 'be', 'sure', 'to', 'use', 'your', 'full', 'address', 'i', '2', 'ee', '2', 'e', 'user', 'domain', '2', 'ecom', 'your', 'name', 'business', 'name', 'business', 'phone', 'number', 'home', 'phone', 'num', 'ber', 'type', 'of', 'busine', 'ss', 'retail', 'business', 'mail', 'order', 'business', 'internet', 'based', 'business', 's', 's', 'personal', 'credi', 't', 'rating', 'excellent', 'good', 'fair', 'poor', 'how', 'soon', 'would', 'you', 'like', 'a', 'merchant', 'account', 'your', 'info', 'rmation', 'is', 'confidential', 'it', 'will', 'not', 'be', 'sold', 'or', 'used', 'for', 'any', 'other', 'purpose', 'and', 'you', 'are', 'under', 'no', 'obligation', '2', 'e', 'your', 'information', 'will', 'be', 'used', 'solely', 'for', 'the', 'purpose', 'of', 'evaluating', 'your', 'business', 'or', 'website', 'for', 'a', 'merchant', 'account', 'so', 'that', 'you', 'may', 'begin', 'acce', 'pting', 'credit', 'card', 'payments', '2', 'e', 'list', 'removal', 'opt', 'out', 'option', 'click', 'herem']

['get', 'g', 'eneric', 'via', 'gra', 'for', 'a', 's', 'low', 'as', '2', '50', 'per', '50', 'mg', 'her', 'type', 'http', 'dutches', 's', 'reado', '893', 'com', 'xm']

['today', 'hey', 'last', 'week', 'jo', 'and', 'me', 'were', 'talking', 'about', 'my', 'prbolem', 'and', 'he', 'said', 'that', 'he', 'tried', 'this', 'new', 'thing', 'from', 'this', 'site', 'and', 'it', 'worked', 'great', 'for', 'him', 'cowry', 'avoid', 'http', 'ns', '2', 'herbalonline', 'biz', 'en', '10', 'aff_id', '00450', 'footmen', 'give', 'me', 'your', 'thoughts', 'on', 'it', 'and', 'shoot', 'me', 'back', 'an', 'email', 'and', 'tell', 'me', 'what', 'you', 'found', 'out', 'if', 'any', 'any', 'input', 'would', 'be', 'appreciated', 'it', 'later', 'small', 'flutter', 'atreus', 'absenteism', 'oriental', 'stratagem', 'hunt', 'amigo', 'attitudinal', 'twice', 'curio', 'rental', 'billion', 'inclusive', 'ruanda', 'screwball', 'birch', 'walpole', 'canary', 'seward', 'floe', 'lisa', 'mo

nadic', 'harriman', 'capitol', 'colloquy', 'laborious', 'expressway', 'b's', 'salaried', 'beware', 'delusive', 'congratulatory', 'ante']

['imperial', 'capital', 'thursday', 'schedule', 'the', 'following', 'is', 'the', 'schedule', 'for', 'thursday's', 'meeting', 'with', 'imperial', 'capital', 'currently', 'all', 'meetings', 'are', 'scheduled', 'in', 'eb', '2868', 'we', 'are', 'trying', 'to', 'arrange', 'a', 'different', 'conference', 'room', 'and', 'will', 'let', 'you', 'know', 'if', 'we', 'obtain', 'one', '9', '00', 'am', 'jim', 'fallon', 'electricity', '9', '30', 'am', 'fred', 'lagrasta', 'gas', '10', '00', 'am', 'lynda', 'clemmons', 'and', 'david', 'kistler', 'weather', '10', '30', 'am', 'ed', 'ondarza', 'pulp', 'and', 'paper', '11', '00', 'am', 'stinson', 'gibner', 'research', '12', 'noon', 'lunch', '1', '00', 'pm', '5', '00', 'pm', 'discussion', 'thanks', 'in', 'advance', 'to', 'all', 'who', 'will', 'come', 'to', 'speak', 'in', 'the', 'morning']

['2', 'nd', 'rev', 'dec', '1999', 'josey', 'ranch', 'nom', 'forwarded', 'by', 'susan', 'd', 'trevino', 'hou', 'ect', 'on', '12', '15', '99', '08', '41', 'am', 'bob', 'withers', 'on', '12', '15', '99', '08', '28', '08', 'am', 'to', 'susan', 'd', 'trevino', 'hou', 'ect', 'ect', 'cc', 'stretch', 'brennan', 'kevin', 'mclarney', 'taylor', 'vance', 'e', 'mail', '', 'subject', '2', 'nd', 'rev', 'dec', '1999', 'josey', 'ranch', 'nom', 'here's', 'revised', 'december', '1999', 'effective', '12', '15', '99', 'setup', 'for', 'josey', 'using', '1', '081', 'btu', 'mcf', 'gas', 'deliveries', 'into', 'hpl', '9', '300', 'mmbtu', 'd', 'for', 'kri', 'net', 'reduction', 'of', '3', '000', 'mmbtu', 'd', '9', '300', 'mmbtu', 'd', 'into', 'hpl', 'bob', 'withers', 'kcs', 'energy', '5555', 'san', 'felipe', 'suite', '1200', 'houston', 'tx', '77056', 'voice', 'mail', 'page', '713', '964', '9434']

['tw', 'weekly', '6', '9', '00', 'please', 'see', 'the', 'attached', 'file', 'and', 'let', 'me', 'know', 'if', 'you', 'have', 'any', 'questions', 'ray', 'stelly']

['california', 'update', '2', '12', 'executive', 'summary', 'the', 'likelihood', 'of', 'there', 'being', 'an', 'involuntary', 'bankruptcy', 'filing', 'against', 'the', 'utilities', 'appears', 'to', 'be', 'greater', 'than', '60', 'this', 'is', 'not', 'only', 'due', 'to', 'the', 'circumstances', 'surrounding', 'the', 'filed', 'rate', 'doctrine', 'case', 'mentioned', 'below', 'but', 'also', 'because', 'the', '30', 'day', 'cure', 'period', 'during', 'which', 'the', 'utilities', 'have', 'not', 'been', 'paying', 'their', 'bills', 'will', 'end', 'this', 'week', 'increasing', 'the', 'likelihood', 'that', 'their', 'ipp', 'creditors', 'will', 'act', 'against', 'them', 'if', 'the', 'state', 'loses', 'the', 'filed', 'rate', 'doctrine', 'case', 'today', 'which', 'it', 'is', 'believed', 'will', 'happen', 'and', 'there', 'is', 'an', 'involuntary', 'bankruptcy', 'filing', 'or', 'even', 'the', 'threat', 'of', 'one', 'this', 'is', 'bail', 'out', 'plan', 'will', 'be', 'enacted', 'quickly', '1', 'utilities', 'vs', 'cpuc', 'governor', 'davis attempt', 'to', 'delay', 'the', 'filed', 'rate', 'doctrine', 'case', 'will', 'not', 'succeed', 'the', 'case', 'will', 'come', 'before', 'the', 'judge', 'on', 'monday', 'february', '12', 'th', 'the', 'federal', 'judge', 'is', 'expected', 'to', 'rule', 'a', 'summary', 'judgment', 'in', 'favor', 'of', 'the', 'utilities', 'however', 'the', 'judg

e', 'will', 'not', 'allow', 'the', 'utilities', 'to', 'collect', 'the', 'injunction', 'release', 'they', 'are', 'requesting', '01', 'kwh', 'this', 'will', 'be', 'left', 'to', 'an', 'appellate', 'court', 'the', 'decision', 'not', 'to', 'allow', 'the', 'utilities', 'to', 'collect', 'this', 'cash', 'could', 'trigger', 'an', 'involuntary', 'bankruptcy', 'filing', 'by', 'the', 'smaller', 'ipps', 'as', 'noted', 'in', 'our', 'reports', 'last', 'week', 'or', 'by', 'larger', 'out', 'of', 'state', 'generators', 'such', 'as', 'duke', 'reliant', 'and', 'dynegy', 'as', 'noted', 'in', 'the', 'press', 'this', 'morning', 'this', 'is', 'expected', 'next', 'week', 'or', 'the', 'week', 'after', '2', 'prospects', 'for', 'a', 'bailout', 'bill', 'ab', '18', 'x', 'is', 'effectively', 'dead', 'from', 'lack', 'of', 'support', 'senator', 'burton', 'despite', 'his', 'public', 'refusals', 'is', 'moving', 'closer', 'to', 'agreeing', 'to', 'a', 'utility', 'bail', 'out', 'the', 'statements', 'by', 'burton', 'and', 'the', 'ca', 'state', 'treasurer', 'are', 'merely', 'a', 'negotiating', 'position', 'they', 'are', 'more', 'concerned', 'about', 'the', 'possibility', 'of', 'a', 'bankruptcy', 'than', 'they', 'appear', 'for', 'burton', 'this', 'is', 'because', 'of', 'his', 'long', 'association', 'with', 'labor', 'unions', 'these', 'unions', 'oppose', 'the', 'utility', 'bankruptcy', 'burton', 'has', 'been', 'negotiating', 'with', 'consumer', 'advocate', 'harvey', 'rosenfield', 'so', 'as', 'not', 'to', 'get', 'attacked', 'by', 'him', 'the', 'deal', 'burton', 'is', 'expected', 'to', 'arrange', 'would', 'be', 'for', 'bonds', 'to', 'be', 'issued', 'by', 'the', 'utilities', 'rather', 'than', 'the', 'state', 'but', 'with', 'some', 'kind', 'of', 'state', 'support', 'but', 'less', 'than', 'full', 'faith', 'and', 'credit', 'of', 'the', 'state', 'of', 'ca', 'which', 'would', 'not', 'pass', 'this', 'would', 'amount', 'to', 'the', 'securitization', 'of', 'an', 'extra', 'charge', 'on', 'power', 'bills', 'e', 'g', '01', 'though', 'the', 'actual', 'amount', 'is', 'not', 'known', 'these', 'bonds', 'would', 'be', 'asset', 'backed', 'securities', 'with', 'payment', 'receivable', 'from', 'rate', 'payers', 'the', 'term', 'of', 'these', 'bonds', 'is', 'unknown', 'if', 'the', 'term', 'is', 'made', 'quite', 'long', 'e', 'g', '20', 'years', 'the', 'associated', 'rate', 'increase', 'could', 'be', 'very', 'small', 'the', 'state', 'would', 'purchase', 'the', 'utilities transmission', 'assets', 'for', 'a', 'very', 'high', 'price', 'the', 'amount', 'of', 'the', 'extra', 'charge', 'on', 'power', 'bills', 'will', 'not', 'be', 'known', 'until', 'the', 'price', 'of', 'the', 'transmission', 'assets', 'is', 'settled', 'if', 'the', 'state', 'loses', 'the', 'filed', 'rate', 'doctrine', 'case', 'today', 'which', 'it', 'is', 'believed', 'will', 'happen', 'and', 'there', 'is', 'an', 'involuntary', 'bankruptcy', 'filing', 'or', 'even', 'the', 'threat', 'of', 'one', 'sources', 'believe', 'that', 'this', 'bail', 'out', 'plan', 'will', 'be', 'enacted', 'quickly', 'as', 'noted', 'in', 'an', 'earlier', 'report', 'the', 'california', 'legislature', 'habitually', 'does', 'not', 'act', 'until', 'things', 'hit', 'the', 'wall', 'it', 'is', 'expected', 'that', 'the', 'republicans', 'in', 'the', 'legislature', 'will', 'follow', 'burton's', 'lead', 'and', 'support', 'the', 'bail', 'out', 'plan', 'the', 'assembly', 'members', 'in', 'particular', 'are', 'not', 'yet', 'supportive', 'of', 'a', 'plan', 'of', 'this', 'nature', 'one', 'moderate', 'democratic', 'legislator', 'wi

th', 'whom', 'our', 'source', 'spoke', 'said', 'that', 'the', 'opposition', 'to', 'a', 'bail', 'out', 'in', 'her', 'central', 'valley', 'district', 'is', '50', 'to', '1', 'however', 'an', 'involuntary', 'filing', 'or', 'the', 'threat', 'thereof', 'may', 'be', 'enough', 'to', 'trigger', 'legislative', 'support', 'it', 'would', 'allow', 'the', 'argument', 'of', 'an', 'imminent', 'threat', 'to', 'the', 'people', 'of', 'the', 'state', 'of', 'california', '3', 'consumer', 'opposition', 'harvey', 'rosenfield', 'is', 'too', 'short', 'on', 'cash', 'to', 'fight', 'this', 'plan', 'and', 'the', 'as associated', 'rate', 'increase', 'with', 'anything', 'but', 'a', 'referendum', 'if', 'the', 'referendum', 'fails', 'he', 'intends', 'to', 'attack', 'individual', 'legislators', 'though', 'not', 'john', 'burton', 'who', 'reportedly', 'has', 'immunity', 'from', 'rosenfield', 'some', 'legislators', 'are', 'thinking', 'of', 'voting', 'for', 'the', 'bail', 'out', 'plan', 'then', 'supporting', 'a', 'referendum', 'from', 'rosenfield', 'later', 'however', 'if', 'the', 'bail', 'out', 'plan', 'and', 'rate', 'increase', 'described', 'above', 'is', 'passed', 'through', 'the', 'legislature', 'as', 'a', 'bill', 'rather', 'than', 'put', 'in', 'place', 'by', 'the', 'puc', 'for', 'example', 'it', 'cannot', 'be', 'reversed', 'by', 'a', 'referendum', 'as', 'additional', 'insurance', 'against', 'rosenfield', 'by', 'supporting', 'the', 'bonds', 'issued', 'under', 'the', 'plan', 'the', 'state', 'can', 'argue', 'that', 'its', 'credit', 'would', 'be', 'impaired', 'in', 'the', 'case', 'of', 'a', 'referendum', 'to', 'repeal', 'the', 'plan', 'while', 'it', 'is', 'not', 'clear', 'that', 'this', 'is', 'a', 'factual', 'argument', 'it', 'still', 'might', 'impede', 'any', 'referendum']

['get', 'the', 'best', 'rate', 'on', 'a', 'home', 'loan', 'if', 'you', 'would', 'like', 'to', 'be', 'removed', 'from', 'future', 'mailings', 'please', 'reply', 'with', 'the', 'word', 'remove', 'in', 'the', 'subject', 'or', 'call', '888', '418', '2575', 'let', 'lenders', 'compete', 'for', 'your', 'business', 'click', 'here', 'cash', 'back', 'refinances', 'no', 'equity', '2', 'and', 'trust', 'deeds', 'debt', 'consolidation', 'no', 'income', 'verification', 'the', 'most', 'competitive', 'interest', 'rates', 'fill', 'in', 'our', 'quick', 'pre', 'qualification', 'form', 'and', 'you', 'will', 'get', 'competing', 'loan', 'offers', 'often', 'within', 'minutes', 'from', 'up', 'to', 'three', 'lenders', 'click', 'here', 'there', 'is', 'never', 'any', 'fee', 'to', 'consumers', 'for', 'using', 'this', 'service', 'copyright', 'ffffa', '9', '1999', '2000', 'eworld', 'marketing', 'inc', '888', '418', '2575', 'this', 'is', 'not', 'a', 'solicitation', 'or', 'offer', 'to', 'lend', 'money', 'eworld', 'marketing', 'is', 'not', 'a', 'lender', 'broker', 'or', 'other', 'financial', 'intermediary', 'we', 'are', 'a', 'marketing', 'company', 'that', 'provides', 'services', 'to', 'the', 'mortgage', 'industry']

['mr', 'uwe', 'schmidt', 'is', 'a', 'knave', "don't", 'buy', 'any', 'product', 'from', 'microsale', 'dear', 'friends', 'microsale', 'sc', 'kg', 'ltd', 'germany', 'is', 'a', 'knave', 'company', 'and', 'uwe', 'schmidt', 'is', 'a', 'big', 'knave', 'we', 'are', 'cheated', 'by', 'microsale', 'sc', 'kg', 'ltd', 'remember', "don't", 'do', 'any', 'business', 'with', 'this', 'company', "don't", 'buy', 'any', 'product', 'from', 'microsale', 'or', 'you', 'will', 'be', 'cheated', 'this', 'company', 'has', 'a', 'bad', 'reputatio

n', 'in', 'germany', 'and', 'in', 'other', 'european', 'countries', 'especially', 'in', 'belgium', 'and', 'netherlands', "here's", 'the', 'story', 'mr', 'uwe', 'schmidt', 'ceo', 'microsale', 'r', 'sc', 'kg', 'he', 'is', 'also', 'an', 'auditor', 'but', 'he', "doesn't", 'have', 'any', 'commercial', 'morality', 'he', 'always', 'made', 'cheated', 'l', 'c', 'to', 'other', 'companies', 'many', 'companies', 'have', 'been', 'cheated', 'by', 'him', 'please', 'take', 'care', 'his', 'products', 'have', 'many', 'problems', 'such', 'as', 'cd', 'player', 'and', 'mp', '3', 'player', "it's", 'the', 'detailed', 'information', 'of', 'this', 'company', 'dahlienweg', '6', 'd', '52477', 'alsdorf', 'nrw', 'germany', 'european', 'union', 'tel', 'fax', 'box', '49', '89', '1488230796', '32', '87', '783518', '32', '87', '783019', 'mobil', '32', '474', '409055', 'email', 'microsale', 'email', 'de', 'microsale', 'gmx', 'net', 'uwe', 'schmidt', 'gmx', 'net', 'web', 'http', 'www', 'microsale', 'biz']

['unify', 'close', 'schedule', 'the', 'following', 'is', 'the', 'close', 'schedule', 'for', 'this', 'coming', 'month', 'year', 'end', 'please', 'keep', 'in', 'the', 'mind', 'the', 'following', 'key', 'times', 'unify', 'to', 'sitara', 'bridge', 'back', '1', '45', 'p', 'm', 'thursday', 'dec', '30', 'th', 'all', 'errors', 'must', 'be', 'clear', 'by', 'this', 'time', 'mass', 'draft', 'at', '6', 'p', 'm', 'thursday', 'evening', 'dec', '30', 'th', 'accrual', 'process', 'begins', 'friday', 'morning', 'dec', '31', 'st', 'at', '6', '30', 'a', 'm', 'if', 'your', 'group', 'impacts', 'the', 'accrual', 'please', 'ensure', 'that', 'the', 'necessary', 'people', 'are', 'available', 'for', 'support', 'if', 'needed', 'as', 'this', 'is', 'an', 'enron', 'holiday', 'please', 'feel', 'free', 'to', 'contact', 'me', 'should', 'you', 'have', 'any', 'questions', 'thank', 'you', 'melissa', 'x', '35615']

['fw', 'meeting', 'with', 'jeff', 'skilling', 'louise', 'per', 'our', 'conversation', 'of', 'last', 'week', 'you', 'might', 'be', 'interested', 'in', 'the', 'following', 'meetings', 'k', 'original', 'message', 'from', 'chapman', 'kay', 'sent', 'wednesday', 'february', '07', '2001', '5', '55', 'pm', 'to', 'taylor', 'liz', 'heathman', 'karen', 'daw', 'nicki', 'taylor', 'liz', 'kimberly', 'hillis', 'hou', 'ect', 'enron', 'sera', 'sherri', 'lehr', 'tonai', 'watson', 'denys', 'gutierrez', 'anabel', 'cc', 'chapman', 'kay', 'subject', 'meeting', 'with', 'jeff', 'skilling', 'dave', 'delainey', 'has', 'asked', 'that', 'i', 'contact', 'each', 'of', 'you', 'for', 'the', 'following', 'meetings', 'date', 'february', '22', '2001', 'date', 'february', '22', '2001', 'thursday', 'thursday', 'time', '9', '00', 'am', '9', '45', 'am', 'time', '9', '45', 'am', '10', '30', 'am', 'location', 'mr', "skilling's", 'office', 'location', 'mr', "skilling's", 'office', 'topic', 'charter', 'review', '2001', 'topic', 'charter', 'review', '2001', 'attendees', 'jeff', 'skilling', 'attendees', 'jeff', 'skilling', 'rick', 'buy', 'rick', 'buy', 'mark', 'frevert', 'mark', 'frevert', 'dave', 'delainey', 'dave', 'delainey', 'john', 'lavorato', 'john', 'lavorato', 'john', 'thompson', 'michael', 'l', 'miller', 'scott', 'josey', 'if', 'you', 'have', 'any', 'questions', 'please', 'feel', 'free', 'to', 'call', 'me', 'thanks', 'kay', '3', '0643']

['get', 'the', 'best', 'rate', 'on', 'a', 'home', 'loan', 'if', 'you', 'would', 'like', 'to', 'be', 'removed', 'from', 'future', 'mailings', 'please', 'reply', 'with', 'the', 'word', 'remove', 'i

n', 'the', 'subject', 'or', 'call', '888', '418', '2575', 'let', 'lenders', 'compete', 'for', 'your', 'business', 'click', 'here', 'cash', 'back', 'refinances', 'no', 'equity', '2', 'nd', 'trust', 'deeds', 'debt', 'consolidation', 'no', 'income', 'verification', 'the', 'most', 'competitive', 'interest', 'rates', 'fill', 'in', 'our', 'quick', 'pre', 'qualification', 'form', 'and', 'you', 'will', 'get', 'competing', 'loan', 'offers', 'often', 'within', 'minutes', 'from', 'up', 'to', 'three', 'lenders', 'click', 'here', 'there', 'is', 'never', 'any', 'fee', 'to', 'consumers', 'for', 'using', 'this', 'service', 'copyright', 'ffffa', '9', '1999', '2000', 'eworld', 'marketing', 'inc', '888', '418', '2575', 'this', 'is', 'not', 'a', 'solicitation', 'or', 'offer', 'to', 'lend', 'money', 'eworld', 'marketing', 'is', 'not', 'a', 'lender', 'broker', 'or', 'other', 'financial', 'intermediary', 'we', 'are', 'a', 'marketing', 'company', 'that', 'provides', 'services', 'to', 'the', 'mortgage', 'industry']

['your', 'membership', 'community', 'charset', 'iso', '8859', '1', 'your', 'membership', 'community', 'commentary', 'july', '6', '2001', "it's", 'all', 'about', 'making', 'money', 'information', 'to', 'provide', 'you', 'with', 'the', 'absolute', 'best', 'low', 'and', 'no', 'cost', 'ways', 'of', 'providing', 'traffic', 'to', 'your', 'site', 'helping', 'you', 'to', 'capitalize', 'on', 'the', 'power', 'and', 'potential', 'the', 'web', 'brings', 'to', 'every', 'net', 'preneur', 'this', 'issue', 'contains', 'sites', 'who', 'will', 'trade', 'links', 'with', 'you', 'in', 'this', 'issue', 'internet', 'success', 'through', 'simplicity', 'member', 'showcase', 'win', 'a', 'free', 'ad', 'in', 'community', 'commentary', "today's", 'special', 'announcement', 'we', 'can', 'help', 'you', 'become', 'an', 'internet', 'service', 'provider', 'within', '7', 'days', 'or', 'we', 'will', 'give', 'you', '100', '00', 'click', 'here', 'we', 'have', 'already', 'signed', '300', 'isps', 'on', 'a', '4', 'year', 'contract', 'see', 'if', 'any', 'are', 'in', 'your', 'town', 'at', 'click', 'here', 'you', 'are', 'a', 'member', 'in', 'at', 'least', 'one', 'of', 'these', 'programs', 'you', 'should', 'be', 'in', 'them', 'all', 'bannersgomlm', 'com', 'profitbanners', 'com', 'cashpromotions', 'com', 'mysiteinc', 'com', 'timshometownstories', 'com', 'freelinksnetwork', 'com', 'myshoppingplace', 'com', 'bannerco', 'op', 'com', 'putpeel', 'com', 'putpeel', 'net', 'sellinternetaccess', 'com', 'be', 'your', 'own', 'isp', 'com', 'seventhpower', 'com', 'internet', 'success', 'through', 'simplicity', 'every', 'day', 'of', 'the', 'week', 'i', 'get', 'questions', 'from', 'people', 'all', 'over', 'the', 'world', 'including', 'my', 'no', 'bs', 'gimg', 'members', 'wanting', 'to', 'know', 'some', 'of', 'the', 'most', 'valuable', 'secrets', 'to', 'my', 'on', 'going', 'internet', 'success', 'let', 'me', 'say', 'above', 'all', 'else', 'i', "don't", 'believe', 'there', 'are', 'any', 'true', 'secrets', 'to', 'success', 'on', 'the', 'net', 'what', 'you', 'do', 'to', 'become', 'successful', 'in', 'the', 'online', 'world', 'is', 'not', 'a', 'secret', 'in', 'my', 'opinion', 'most', 'successful', 'people', 'follow', 'simple', 'clear', 'repeatedly', 'proven', 'strategies', 'to', 'succeed', 'whether', 'on', 'the', 'net', 'or', 'off', 'but', 'when', 'it', 'comes', 'to', 'someone', 'asking', 'for', 'advice', 'consultation', 'or', 'simply', 'asking', "what's", 'your', 'secret', 'i', 'have', 'to', 'blush', 'say', 'pe

rsistence', 'and', 'personality', 'of', 'course', 'i', 'always', 'follow', 'the', 'advice', 'with', 'my', 'own', 'little', 'disclaimer', 'what', 'makes', 'me', 'successful', 'may', 'not', 'work', 'the', 'same', 'for', 'you', 'your', 'first', 'lesson', 'is', 'to', 'get', 'over', 'the', 'deep', 'seeded', 'idea', 'that', 'success', 'of', 'any', 'kind', 'in', 'my', 'opinion', 'is', 'somehow', 'an', 'unknown', 'unattainable', 'secret', 'clearly', 'it', 'is', 'not', "it's", 'not', 'unknown', "it's", 'not', 'unattainable', "it's", 'not', 'years', 'of', 'digging', 'to', 'find', 'the', 'secrets', 'to', 'internet', 'riches', 'one', 'thing', 'that', 'gets', 'to', 'me', 'so', 'often', 'in', 'my', 'work', 'as', 'an', 'internet', 'consultant', 'author', 'and', 'internet', 'success', 'strategist', 'is', 'that', 'so', 'many', 'people', 'on', 'the', 'net', 'seem', 'to', 'have', 'this', 'incredibly', 'huge', 'mental', 'block', 'that', 'stands', 'between', 'themselves', 'and', 'success', 'on', 'the', 'net', "it's", 'almost', 'as', 'if', "they've", 'been', 'barraged', 'by', 'so', 'many', 'claims', 'of', 'what', 'works', 'and', 'what', "doesn't", 'work', 'and', 'so', 'many', 'long', 'complicated', 'routes', 'to', 'actually', 'succeeding', 'in', 'their', 'online', 'venture', 'that', 'success', 'is', 'the', 'equivalent', 'of', 'a', '100', 'foot', 'high', 'brick', 'wall', "it's", 'not', 'that', 'difficult', 'my', 'friends', 'it', 'is', 'not', 'that', 'complicated', 'long', 'time', 'friend', 'and', 'business', 'associate', 'rick', 'beneteau', 'has', 'a', 'new', 'ebook', 'out', 'called', 'branding', 'you', 'breaking', 'the', 'bank', 'get', 'it', 'http', 'www', 'roibot', 'com', 'bybb', 'cgi', 'im', '7517_bybtb', 'but', 'the', 'reason', 'i', 'mention', 'this', 'is', 'the', 'fact', 'that', 'he', 'talks', 'so', 'dynamically', 'about', 'the', 'true', 'simplicity', 'of', 'making', 'your', 'online', 'venture', 'a', 'success', 'and', 'yes', 'rick', 'i', 'come', 'from', 'the', 'same', 'school', 'of', 'self', 'marketing', 'marketing', 'you', 'obviously', "that's", 'the', 'core', 'of', 'his', 'excellent', 'new', 'ebook', 'and', 'i', "couldn't", 'agree', 'with', 'him', 'more', 'point', 'being', 'you', 'are', 'everything', 'you', 'do', 'online', 'to', 'succeed', 'you', 'are', 'your', 'web', 'site', 'your', 'business', 'your', 'marketing', 'piece', 'your', 'customer', 'service', 'your', 'customers', '"', 'experiences', 'with', 'your', 'business', 'all', 'of', 'it', 'is', 'you', 'read', 'his', 'ebook', "you'll", 'see', 'more', 'of', 'what', "i'm", 'saying', 'the', 'matter', 'at', 'hand', 'is', 'that', 'brick', 'wall', 'you', 'might', 'have', 'standing', 'high', 'as', 'you', 'can', 'see', 'blocking', 'the', 'path', 'between', 'you', 'internet', 'success', 'listen', 'to', 'me', 'it', 'is', 'not', 'real', 'ok', 'it', "doesn't", 'exist', "there's", 'nothing', 'there', 'to', 'fear', 'to', 'begin', 'with', 'get', 'over', 'it', 'what', "i'm", 'telling', 'you', 'is', 'the', 'only', 'thing', 'standing', 'between', 'you', 'and', 'the', 'success', 'you', 'most', 'desire', 'is', 'yourself', 'when', 'you', 'realize', 'this', 'you', 'will', 'tear', 'down', 'that', 'brick', 'wall', 'by', 'means', 'of', 'complete', 'and', 'instantaneous', 'disintegration', 'it', 'will', 'no', 'longer', 'exist', 'in', 'your', 'mind', 'which', 'is', 'the', 'only', 'real', 'place', 'it', 'ever', 'was', 'anyhow', 'yes', 'persistence', 'and', 'personality', 'inherently', 'includes', 'honesty', 'integrity', 'accountability', 'and', 'many', 'other', 'qualities'

ies', 'but', 'you', 'also', 'have', 'to', 'hone', 'in', 'on', 'you
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'about', 'simple', 'bryan', 'is', 'a', 'veteran', 'internet', 'con
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'can', 'reach', 'bryan', 'at', '877', '230', '3267', 'or', 'by',
'emailing', 'him', 'directly', 'at', 'bryan', 'hall', 'mega', 'suc
cess', 'com', 'member', 'showcase', 'examine', 'carefully', 'thos
e', 'with', 'email', 'addresses', 'included', 'will', 'trade', 'li
nks', 'with', 'you', 'you', 'are', 'encouraged', 'to', 'contact',
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'get', 'insane', 'amounts', 'of', 'traffic', 'to', 'your', 'websit
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'space', 'is', 'limited', 'order', 'now', 'http', 'www', 'freepick
lotto', 'com', 'trade', 'links', 'businessopps', 'aol', 'com', 'st
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'net', 'for', 'your', 'free', 'lesson', 'act', 'now', 'p', 's', 't
ell', 'someone', 'you', 'care', 'about', 'trade', 'links', 'jsturc
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n', 'casinos', 'sportsbetting', 'sites', 'lingerie', 'stores', 'gi
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'bmlm', '99', 'to', 'receive', 'this', 'special', 'sale', 'price',
'order', 'now', 'http', 'www', 'cyberopps', 'com', 'bmlm', '99',
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'visit', 'the', 'site', 'to', 'trade', 'links', 'http', 'www', 'af
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g', 'guru', 'corey', 'rudl', 'has', 'just', 'released', 'a', 'bran
d', 'new', 'version', 'of', 'his', '1', 'best', 'selling', 'intern
et', 'marketing', 'course', 'the', 'insider', "secret's", 'to', 'm
arketing', 'your', 'business', 'on', 'the', 'internet', 'a', 'mus

t', 'have', 'so', "don't", 'hesitate', 'visit', 'http', 'www', 'ad
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'260', 'page', 'catalog', 'with', 'over', '3000', 'gift', 'items',
'for', 'men', 'women', 'children', 'a', 'gift', 'for', 'everyone',
'we', 'show', '100', 'gift', 'items', 'on', 'our', 'web', 'site',
'alone', 'with', 'the', 'catalog', 'you', 'have', 'access', 'to',
'the', 'rest', 'we', 'also', 'feel', 'we', 'have', 'the', 'best',
'prices', 'on', 'the', 'web', 'visit', 'at', 'http', 'www', 'net',
'trade', 'links', 'georgel', '932', 'me', 'yahoo', 'com', 'if', 'y
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e', 'reach', 'your', 'targeted', 'audience', 'for', 'a', 'fractio
n', 'of', 'what', 'other', 'large', 'newsletters', 'charge', 'yo
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g', 'how', 'about', 'this', 'every', 'month', "we'll", 'draw',
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ill', 'win', 'one', 'sponsorship', 'showcase', 'ad', 'in', 'the',
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'less', 'time', 'online', 'in', 'the', 'summer', 'months', 'more',
'mailto', 'one', 'aeopublishing', 'com', 'less', 'mailto', 'two',
'aeopublishing', 'com', 'same', 'mailto', 'three', 'aeopublishin
g', 'com', 'to', 'make', 'this', 'as', 'easy', 'as', 'possible',
'for', 'you', 'just', 'click', 'on', 'the', 'e', 'mail', 'addres
s', 'that', 'matches', 'your', 'answer', 'you', 'do', 'not', 'nee
d', 'to', 'enter', 'any', 'information', 'in', 'the', 'subject',
'or', 'body', 'of', 'the', 'message', 'add', 'your', 'comments',
'follow', 'directions', 'above', 'and', 'add', 'your', 'comments',
'in', 'the', 'body', 'of', 'the', 'message', 'and', "we'll", 'pos
t', 'the', 'best', 'commentaries', 'along', 'with', 'the', 'respon
ses', 'you', 'will', 'automatically', 'be', 'entered', 'in', 'ou
r', 'drawing', 'for', 'a', 'free', 'sponsorship', 'ad', 'in', 'th
e', 'community', 'commentary', 'please', 'respond', 'only', 'one',
'time', 'per', 'question', 'multiple', 'responses', 'from', 'the',
'same', 'individual', 'will', 'be', 'discarded', 'last', "week
s's", 'results', '06', '29', '01', 'what', 'is', 'the', 'goal', 'o
f', 'your', 'website', 'sell', '40', 'get', 'leads', '20', 'buil
d', 'branding', '5', 'provide', 'information', '20', 'other', '1
5', 'comments', 'our', 'web', 'site', 'is', 'initially', 'designe
d', 'to', 'get', 'leads', 'build', 'branding', 'and', 'provide',
'information', 'with', 'a', '12', 'month', 'goal', 'of', 'sellin

g', 'our', 'service', 'more', 'specifically', 'via', 'a', 'shopping', 'cart', 'we', 'offer', 'a', 'service', 'and', 'at', 'this', 'time', 'take', 'deposits', 'and', 'payments', 'via', 'our', 'site', 'our', 'site', 'has', 'been', 'up', 'less', 'than', '2', 'months', 'and', 'our', 'expectation', 'was', 'that', 'we', 'would', 'refer', 'to', 'our', 'site', 'for', 'leads', 'developed', 'in', 'traditional', 'media', 'and', 'by', 'referral', 'for', 'more', 'information', 'and', 'to', 'make', 'a', 'professional', 'impression', 'on', 'someone', 'you', 'may', 'not', 'meet', 'before', 'providing', 'service', 'the', 'growth', 'of', 'our', 'customer', 'base', 'shopping', 'on', 'line', 'has', 'grown', 'outside', 'of', 'anyones', 'expectations', 'certainly', 'mine', 'and', 'i've', 'been', 'in', 'this', 'business', 'for', '25', 'years', 'the', 'internet', 'is', 'not', 'dead', 'in', 'the', 'horse', 'business', 'it', 'is', 'just', 'getting', 'its', 'legs', 'and', 'the', 'folks', 'using', 'it', 'want', 'to', 'get', 'all', 'the', 'ancillary', 'services', 'on', 'line', 'as', 'well', 'our', 'site', 'the', 'first', 'we've', 'developed', 'has', 'exceeded', 'our', 'expectations', 'and', 'we', 'aren't', 'satisfied', 'with', 'it', 'yet', 'we', 'just', 'wanted', 'to', 'get', 'it', 'there', 'for', 'information', 'jeff', 'and', 'rebecca', 'marks', 'http', 'www', 'grand', 'champion', 'com', 'branding', 'while', 'quality', 'customer', 'service', 'and', 'product', 'have', 'been', 'and', 'will', 'always', 'be', 'our', 'top', 'priority', 'brand', 'building', 'zesto', 'is', 'our', 'most', 'challenging', 'task', 'zesto', 'com', 'ranks', 'very', 'high', 'and', 'most', 'often', '1', 'or', '2', 'on', 'all', 'major', 'search', 'engines', 'and', 'directories', 'even', 'yahoo', 'entering', 'the', 'keyword', 'zesto', 'the', 'problem', 'is', 'simply', 'that', 'who', 'if', 'anyone', 'would', 'type', 'the', 'keyword', 'zesto', 'therefore', 'we', 'must', 'try', 'to', 'build', 'our', 'brand', 'by', 'ensuring', 'that', 'generic', 'keywords', 'associated', 'with', 'our', 'products', 'citrus', 'peel', 'are', 'used', 'throughout', 'our', 'site', 'as', 'well', 'as', 'search', 'engine', 'submissions', 'fortunately', 'owning', 'a', 'non', 'generic', 'domain', 'short', 'easy', 'to', 'remember', 'and', 'trademarked', 'works', 'in', 'our', 'favor', 'because', 'the', 'marketability', 'potential', 'is', 'limitless', 'arlene', 'turner', 'http', 'www', 'zesto', 'com', 'to', 'change', 'your', 'subscribed', 'address', 'send', 'both', 'new', 'and', 'old', 'address', 'to', 'submit', 'see', 'below', 'for', 'unsubscribe', 'instructions', 'please', 'send', 'suggestions', 'and', 'comments', 'to', 'editor', 'i', 'invite', 'you', 'to', 'send', 'your', 'real', 'successes', 'and', 'showcase', 'your', 'strategies', 'and', 'techniques', 'or', 'yes', 'even', 'your', 'total', 'bombs', 'working', 'together', 'we', 'can', 'all', 'prosper', 'submit', 'for', 'information', 'on', 'how', 'to', 'sponsor', 'your', 'membership', 'community', 'commentary', 'visit', 'sponsorship', 'showcase', 'copyright', '2001', 'aeopublishing', 'com', 'email', 'yourmembership', '2', 'aeopublishing', 'com', 'voice', 'web', 'http', 'www', 'aeopublishing', 'com', 'this', 'email', 'has', 'been', 'sent', 'to', 'jm', 'netnoteinc', 'com', 'at', 'your', 'request', 'by', 'your', 'membership', 'newsletter', 'services', 'visit', 'our', 'subscription', 'center', 'to', 'edit', 'your', 'interests', 'or', 'unsubscribe', 'http', 'ccprod', 'roving', 'com', 'roving', 'd', 'jsp', 'p', 'oo', 'id', 'bd', '7',

'n', '7877', '7', 'giv', '5', 'd', '57', 'm', 'bd', '7', 'n', '7877', 'charset', 'iso', '8859', '1', 'in', 'this', 'issue', 'internet', 'success', 'through', 'simplicity', 'member', 'showcase', 'win', 'a', 'free', 'ad', 'in', 'community', 'commentary', "today's", 'special', 'announcement', 'win', 'a', 'free', 'ad', 'in', 'community', 'commentaryto', 'keep', 'this', 'interesting', 'how', 'about', 'this', 'every', 'month', "we'll", 'draw', 'a', 'name', 'from', 'the', 'replies', 'and', 'that', 'person', 'will', 'win', 'on', 'e', 'sponsorship', 'showcase', 'ad', 'in', 'the', 'community', 'commentary', 'for', 'free', "that's", 'a', 'value', 'of', 'over', '700', '00', 'respond', 'to', 'each', 'weekly', 'survey', 'and', 'increase', 'your', 'chances', 'to', 'win', 'with', 'four', 'separate', 'entries', 'question', 'of', 'the', 'week', '07', '06', '01', 'no', 'right', 'or', 'wrong', 'answers', 'and', 'just', 'by', 'answering', 'you', 'are', 'entered', 'to', 'win', 'a', 'showcase', 'ad', 'free', 'do', 'you', 'spend', 'more', 'or', 'less', 'time', 'online', 'in', 'the', 'summer', 'months', 'more', 'mailto', 'one', 'aeopublishing', 'com', 'less', 'mailto', 'two', 'aeopublishing', 'com', 'same', 'mailto', 'three', 'aeopublishing', 'com', 'to', 'make', 'this', 'as', 'easy', 'as', 'possible', 'for', 'you', 'just', 'click', 'on', 'the', 'e', 'mail', 'address', 'that', 'matches', 'your', 'answer', 'you', 'do', 'not', 'need', 'to', 'enter', 'any', 'information', 'in', 'the', 'subject', 'or', 'body', 'of', 'the', 'message', 'add', 'your', 'comments', 'follow', 'directions', 'above', 'and', 'add', 'your', 'comments', 'in', 'the', 'body', 'of', 'the', 'message', 'and', "we'll", 'post', 'the', 'best', 'commentaries', 'along', 'with', 'the', 'responses', 'you', 'will', 'automatically', 'be', 'entered', 'in', 'our', 'drawing', 'for', 'a', 'free', 'sponsorship', 'ad', 'in', 'the', 'community', 'commentary', 'please', 'respond', 'only', 'one', 'time', 'per', 'question', 'multiple', 'responses', 'from', 'the', 'same', 'individual', 'will', 'be', 'discarded', 'last', "weeks's", 'results', '06', '29', '01', 'what', 'is', 'the', 'goal', 'of', 'your', 'website', 'sell', '40', 'get', 'leads', '20', 'build', 'branding', '5', 'provide', 'information', '20', 'other', '15', 'comments', 'our', 'web', 'site', 'is', 'initially', 'designed', 'to', 'get', 'leads', 'build', 'branding', 'and', 'provide', 'information', 'with', 'a', '12', 'month', 'goal', 'of', 'selling', 'our', 'service', 'more', 'specifically', 'via', 'a', 'shopping', 'cart', 'we', 'offer', 'a', 'service', 'and', 'at', 'this', 'time', 'take', 'deposits', 'and', 'payments', 'via', 'our', 'site', 'our', 'site', 'has', 'been', 'up', 'less', 'than', '2', 'months', 'and', 'our', 'expectation', 'was', 'that', 'we', 'would', 'refer', 'to', 'our', 'site', 'for', 'leads', 'developed', 'in', 'traditional', 'media', 'and', 'by', 'referral', 'for', 'more', 'information', 'and', 'to', 'make', 'a', 'professional', 'impression', 'on', 'someone', 'you', 'may', 'not', 'meet', 'before', 'providing', 'service', 'the', 'growth', 'of', 'our', 'customer', 'base', 'shopping', 'on', 'line', 'has', 'grown', 'outside', 'of', "anyone's", 'expectations', 'certainly', 'mine', 'and', "i've", 'been', 'in', 'this', 'business', 'for', '25', 'years', 'the', 'internet', 'is', 'not', 'dead', 'in', 'the', 'horse', 'business', 'it', 'is', 'just', 'getting', "it's", 'legs', 'and', 'the', 'folks', 'using', 'it', 'want', 'to', 'get', 'all', 'the', 'ancillary', 'services', 'on', 'line', 'as',

'well', 'our', 'site', 'the', 'first', 'we've', 'developed', 'has', 'exceeded', 'our', 'expectations', 'and', 'we', 'aren't', 'satisfied', 'with', 'it', 'yet', 'we', 'just', 'wanted', 'to', 'get', 'it', 'there', 'for', 'information', 'jeff', 'and', 'rebecca', 'marks', 'http', 'www', 'grand', 'champion', 'com', 'branding', 'while', 'quality', 'customer', 'service', 'and', 'product', 'have', 'been', 'and', 'will', 'always', 'be', 'our', 'top', 'priority', 'brand', 'building', 'zesto', 'is', 'our', 'most', 'challenging', 'task', 'zesto', 'com', 'ranks', 'very', 'high', 'and', 'most', 'often', '1', 'or', '2', 'on', 'all', 'major', 'search', 'engines', 'and', 'directories', 'even', 'yahoo', 'entering', 'the', 'keyword', 'zesto', 'the', 'problem', 'is', 'simply', 'that', 'who', 'if', 'anyone', 'would', 'type', 'the', 'keyword', 'zesto', 'therefore', 'we', 'must', 'try', 'to', 'build', 'our', 'brand', 'by', 'ensuring', 'that', 'generic', 'keywords', 'associated', 'with', 'our', 'products', 'citrus', 'peel', 'are', 'used', 'throughout', 'our', 'site', 'as', 'well', 'as', 'search', 'engine', 'submissions', 'fortunately', 'owning', 'a', 'non', 'generic', 'domain', 'short', 'easy', 'to', 'remember', 'and', 'trademarked', 'works', 'in', 'our', 'favor', 'because', 'the', 'marketability', 'potential', 'is', 'limitless', 'arlene', 'turner', 'http', 'www', 'zesto', 'com', 'to', 'change', 'your', 'subscribed', 'address', 'send', 'both', 'new', 'and', 'old', 'address', 'to', 'submit', 'see', 'below', 'for', 'unsubscribe', 'instructions', 'please', 'send', 'suggestions', 'and', 'comments', 'to', 'editor', 'i', 'invite', 'you', 'to', 'send', 'your', 'real', 'successes', 'and', 'showcase', 'your', 'strategies', 'and', 'techniques', 'or', 'yes', 'even', 'your', 'total', 'bombs', 'working', 'together', 'we', 'can', 'all', 'prosper', 'submit', 'for', 'information', 'on', 'how', 'to', 'sponsor', 'your', 'membership', 'community', 'commentary', 'visit', 'sponsorship', 'showcase', 'copyright', '2001', 'aeopublishing', 'com', 'email', 'us', 'visit', 'our', 'site', 'phone', 'this', 'email', 'was', 'sent', 'to', 'jm', 'netnoteinc', 'com', 'at', 'your', 'request', 'by', 'your', 'membership', 'newsletter', 'services', 'visit', 'our', 'subscription', 'center', 'to', 'edit', 'your', 'interests', 'or', 'unsubscribe', 'view', 'our', 'privacy', 'policy', 'powered', 'by']

[ativan', 'n', 'vicodin', 'n', 'xanax', 'x', 'valium', 'm', 'dxqrgu', 'many', 'specials', 'running', 'this', 'week', 'the', 'real', 'thing', 'not', 'like', 'the', 'other', 'sites', 'that', 'imitate', 'these', 'products', 'no', 'hidd', 'en', 'char', 'ges', 'fast', 'delivery', 'vic', 'odin', 'val', 'ium', 'xan', 'ax', 'via', 'gra', 'diaz', 'epam', 'alpra', 'zolam', 'so', 'ma', 'fior', 'ict', 'amb', 'ien', 'stil', 'nox', 'ult', 'ram', 'zo', 'loft', 'clon', 'azepam', 'at', 'ivan', 'tr', 'amadol', 'xeni', 'cal', 'cele', 'brex', 'vi', 'oxx', 'pro', 'zac', 'bus', 'par', 'much', 'm', 'or', 'e', 'if', 'you', 'have', 'recieved', 'this', 'in', 'error', 'please', 'use', 'http', 'www', 'nowbetterthis', 'biz', 'bye', 'html', 'w', 'g', 'snhezkjzhisbpjhgx', 'hcokyovrdsprayz', 'klei', 'vzxoaxghg', 'kvie']

[important', 'news', 'for', 'usavity', 'customers', 'dear', 'cheapsoft', 'customer', 'my', 'name', 'is', 'annie', 'kincaid', 'and', 'i', 'work', 'at', 'cheapsoft', 'llc', 'you', 'are', 'important', 'to', 'me', 'you', 'spend', 'your', 'money', 'and', 'time', 'o

n', 'cheapsoft', 'and', 'i', 'want', 'to', 'let', 'you', 'know', 'that', 'we', 'have', 'finished', 'update', 'our', 'programs', 'store', 'i', 'want', 'to', 'remind', 'you', 'that', 'we', 'are', 'offering', 'now', 'more', 'than', '1500', 'popular', 'software', 'for', 'low', 'price', 'with', 'your', 'personal', 'customer's', 'discount', 'please', 'spend', 'few', 'moments', 'of', 'yours', 'precious', 'time', 'to', 'check', 'our', 'updated', 'software', 'store', 'http', 'www', 'dutyfreesoft', '4', 'all', 'info', 'with', 'regards', 'customer', 'service', 'department', 'annie', 'kincaid']
['a', 'paper', 'of', 'mine', 'vince', 'i', 'have', 'written', 'a', 'paper', 'which', 'supposedly', 'is', 'going', 'to', 'be', 'published', 'in', 'the', 'february', '2000', 'issue', 'of', 'epm', 'probably', 'after', 'some', 'editorial', 'cuts', 'at', 'least', 'this', 'is', 'what', 'i', 'am', 'being', 'told', 'by', 'them', 'i', 'would', 'appreciate', 'your', 'thoughts', 'if', 'you', 'would', 'have', 'time', 'to', 'read', 'it', 'regards', 'martin', 'user conf', 'doc']

['global', 'risk', 'management', 'operations', 'congratulations', 'sally', 'kk', 'forwarded', 'by', 'kathy', 'kokas', 'corp', 'enron', 'on', '01', '17', '2000', '08', '08', 'pm', 'from', 'rick', 'causey', '01', '17', '2000', '06', '04', 'pm', 'sent', 'by', 'enron', 'announcements', 'to', 'all', 'enron', 'worldwide', 'cc', 'subject', 'global', 'risk', 'management', 'operations', 'recognizing', 'enron', 's', 'increasing', 'worldwide', 'presence', 'in', 'the', 'wholesale', 'energy', 'business', 'and', 'the', 'need', 'to', 'insure', 'outstanding', 'internal', 'controls', 'for', 'all', 'of', 'our', 'risk', 'management', 'activities', 'regardless', 'of', 'location', 'a', 'global', 'risk', 'management', 'operations', 'function', 'has', 'been', 'created', 'under', 'the', 'direction', 'of', 'sally', 'w', 'beck', 'vice', 'president', 'in', 'this', 'role', 'sally', 'will', 'report', 'to', 'rick', 'causey', 'executive', 'vice', 'president', 'and', 'chief', 'accounting', 'officer', 'sally', 's', 'responsibilities', 'with', 'regard', 'to', 'global', 'risk', 'management', 'operations', 'will', 'mirror', 'those', 'of', 'other', 'recently', 'created', 'enron', 'global', 'functions', 'in', 'this', 'role', 'sally', 'will', 'work', 'closely', 'with', 'all', 'enron', 'geographic', 'regions', 'and', 'wholesale', 'companies', 'to', 'insure', 'that', 'each', 'entity', 'receives', 'individualized', 'regional', 'support', 'while', 'also', 'focusing', 'on', 'the', 'following', 'global', 'responsibilities', '1', 'enhance', 'communication', 'among', 'risk', 'management', 'operations', 'professionals', '2', 'assure', 'the', 'proliferation', 'of', 'best', 'operational', 'practices', 'around', 'the', 'globe', '3', 'facilitate', 'the', 'allocation', 'of', 'human', 'resources', '4', 'provide', 'training', 'for', 'risk', 'management', 'operations', 'personnel', '5', 'coordinate', 'user', 'requirements', 'for', 'shared', 'operational', 'systems', '6', 'oversee', 'the', 'creation', 'of', 'a', 'global', 'internal', 'control', 'audit', 'plan', 'for', 'risk', 'management', 'activities', '7', 'establish', 'procedures', 'for', 'opening', 'new', 'risk', 'management', 'operations', 'offices', 'and', 'create', 'key', 'benchmarks', 'for', 'measuring', 'on', 'going', 'risk', 'controls', 'each', 'regional', 'operations', 'team', 'will', 'continue', 'its', 'direct', 'reporting', 'relationship', 'within', 'its', 'business', 'unit',

'and', 'will', 'collaborate', 'with', 'sally', 'in', 'the', 'delivery', 'of', 'these', 'critical', 'items', 'the', 'houston', 'based', 'risk', 'management', 'operations', 'team', 'under', 'sue', 'frusco', 's', 'leadership', 'which', 'currently', 'supports', 'risk', 'management', 'activities', 'for', 'south', 'america', 'and', 'australia', 'will', 'also', 'report', 'directly', 'to', 'sally', 'sally', 'retains', 'her', 'role', 'as', 'vice', 'president', 'of', 'energy', 'operations', 'for', 'enron', 'north', 'america', 'reporting', 'to', 'the', 'ena', 'office', 'of', 'the', 'chairman', 'she', 'has', 'been', 'in', 'her', 'current', 'role', 'over', 'energy', 'operations', 'since', '1997', 'where', 'she', 'manages', 'risk', 'consolidation', 'and', 'reporting', 'risk', 'management', 'administration', 'physical', 'product', 'delivery', 'confirmations', 'and', 'cash', 'management', 'for', 'ena', 's', 'physical', 'commodity', 'trading', 'energy', 'derivatives', 'trading', 'and', 'financial', 'products', 'trading', 'sally', 'has', 'been', 'with', 'enron', 'since', '1992', 'when', 'she', 'joined', 'the', 'company', 'as', 'a', 'manager', 'in', 'global', 'credit', 'prior', 'to', 'joining', 'enron', 'sally', 'had', 'four', 'years', 'experience', 'as', 'a', 'commercial', 'banker', 'and', 'spent', 'seven', 'years', 'as', 'a', 'registered', 'securities', 'principal', 'with', 'a', 'regional', 'investment', 'banking', 'firm', 'she', 'also', 'owned', 'and', 'managed', 'a', 'retail', 'business', 'for', 'several', 'years', 'please', 'join', 'me', 'in', 'supporting', 'sally', 'in', 'this', 'additional', 'coordination', 'role', 'for', 'global', 'risk', 'management', 'operations']

['monday', 'blues', 'bill', 'i', 'am', 'having', 'such', 'a', 'terrible', 'day', 'i', 'am', 'so', 'flustrated', 'can', 'you', 'believe', 'it', 'is', 'only', 'monday', 'ah', 'anyhow', 'i', 'hope', 'your', 'day', 'is', 'going', 'much', 'better', 'than', 'mine', 'when', 'i', 'saw', 'you', 'earlier', 'you', 'looked', 'kinda', 'angry', 'or', 'something', 'i', 'hope', 'i', 'was', 'just', 'imagining', 'that', 'anyhow', "i'd", 'better', 'get', 'back', 'to', 'work', "i'll", 'talk', 'to', 'you', 'later']

['get', 'that', 'new', 'car', '8434', 'people', 'nowthe', 'weather', 'or', 'climate', 'in', 'any', 'particular', 'environment', 'can', 'change', 'and', 'affect', 'what', 'people', 'eat', 'and', 'how', 'much', 'of', 'it', 'they', 'are', 'able', 'to', 'eat']

['super', 'discounts', 'on', 'ambien', 'and', 'soma', 'up', 'to', '80', 'savings', 'on', 'xanax', 'valium', 'phentermine', 'viagra', 'here', 'andorra', 'elmira', 'pompey', 'cankerworm', 'rush', 'curricula', 'kaskaskia', 'whitehorse', 'devoid', 'stacy', 'haunch', 'curtain', 'quadrangular', 'prefix', 'axe', 'beck', 'dubhe', "canyon u's", 'copenhagen', 'adolescent', 'martensite', 'bucolic', 'triassic', 'baccarat', 'spigot', 'macarthur', 'ague', 'fraternal', 'textual', 'militarism', 'flynn', 'lobster', 'plushy', 'aphrodite', 'hillmancarthage', 'cagey', 'nostalgia', 'lineal', 'mauricio', 'glandular', 'columnar', 'doff', 'strangulate', 'cryogenic', 'phrasemake', 'carrie', 'clamp', 'pet', 'express', 'indubitable', 'extremal', 'crapbedspring', 'squill', 'hydroxylate', 'cannot', 'keyes', 'rosalie', 'bestowal', 'ncaa', 'brighton', 'carriage', 'mesopotamia', 'doctoral', 'phonetic', 'samarium', 'nearby', 'psychotic', 'manitoba', 'cornet', 'delinquent', 'novak', 'brim', 'pun', 'ecole', 'exultant', 'cheeky', 'griddle', 'ambrose', 'descendent', 'foreve

r', 'affectate', 'scuttle']

['your', 'winning', 'notice', 'pacific', 'international', 'lottery', 'organisation', 'from', 'the', 'desk', 'of', 'the', 'director', 'of', 'promotion', 'international', 'prize', 'award', 'dept', 'ref', 'pl', '2', '209318', '09', 'batch', '18', '103', 'hme', 'dear', 'sir', 'madam', 'we', 'are', 'pleased', 'to', 'inform', 'you', 'of', 'the', 'result', 'of', 'the', 'lottery', 'winners', 'international', 'programs', 'held', 'on', 'the', '27', 'th', '6', '2004', 'your', 'e', 'mail', 'address', 'attached', 'to', 'ticket', 'number', '436425795822', '5022', 'with', 'serial', 'number', '6614102', 'batch', 'number', '8561513507', 'lottery', 'ref', 'number', '7675213911', 'and', 'drew', 'lucky', 'numbers', '7', '9', '4', '17', '34', '44', 'which', 'consequently', 'won', 'in', 'category', 'c', 'you', 'have', 'therefore', 'been', 'approved', 'for', 'a', 'lump', 'sum', 'pay', 'out', 'of', 'us', '1', '500', '000', '00', 'one', 'million', 'five', 'hundred', 'thousand', 'united', 'states', 'dollars', 'congratulations', 'due', 'to', 'mix', 'up', 'of', 'some', 'numbers', 'and', 'names', 'we', 'ask', 'that', 'you', 'keep', 'your', 'winning', 'information', 'confidential', 'until', 'your', 'claims', 'has', 'been', 'processed', 'and', 'your', 'money', 'remitted', 'to', 'you', 'this', 'is', 'part', 'of', 'our', 'security', 'protocol', 'to', 'avoid', 'double', 'claiming', 'and', 'unwarranted', 'abuse', 'of', 'this', 'program', 'by', 'some', 'participants', 'all', 'participants', 'were', 'selected', 'through', 'a', 'computer', 'ballot', 'system', 'drawn', 'from', 'over', '40', '000', 'company', 'and', '20', '000', '000', 'individual', 'email', 'addresses', 'and', 'names', 'from', 'all', 'over', 'the', 'world', 'this', 'promotional', 'program', 'takes', 'place', 'every', 'year', 'this', 'lottery', 'was', 'promoted', 'and', 'sponsored', 'by', 'association', 'of', 'software', 'producers', 'we', 'hope', 'with', 'part', 'of', 'your', 'winning', 'you', 'will', 'take', 'part', 'in', 'our', 'next', 'year', 'us', '20', 'million', 'international', 'lottery', 'to', 'file', 'for', 'your', 'claim', 'please', 'contact', 'our', 'fiducial', 'agent', 'mr', 'rook', 'van', 'nas', 'magnum', 'securities', 'company', 'amsterdam', 'netherlands', 'email', 'admin_magnumo', 'mail', '2', 'netherlands', 'com', 'tel', '31615304791', 'remember', 'all', 'winning', 'must', 'be', 'claimed', 'not', 'later', 'than', '6', 'th', 'of', 'august', '2004', 'after', 'this', 'date', 'all', 'unclaimed', 'funds', 'will', 'be', 'included', 'in', 'the', 'next', 'stake', 'please', 'note', 'in', 'order', 'to', 'avoid', 'unnecessary', 'delays', 'and', 'complications', 'please', 'remember', 'to', 'quote', 'your', 'reference', 'number', 'and', 'batch', 'numbers', 'in', 'all', 'correspondence', 'furthermore', 'should', 'there', 'be', 'any', 'change', 'of', 'address', 'do', 'inform', 'our', 'agent', 'as', 'soon', 'as', 'possible', 'congratulations', 'once', 'more', 'from', 'our', 'members', 'of', 'staff', 'and', 'thank', 'you', 'for', 'being', 'part', 'of', 'our', 'promotional', 'program', 'note', 'anybody', 'under', 'the', 'age', 'of', '18', 'is', 'automatically', 'disqualified', 'yours', 'sincerely', 'john', 'smith', 'lottery', 'coordinator', 'this', 'email', 'was', 'sent', 'using', 'the', 'webmail', 'feature', 'pc', 'bytesize']

['invitation', 'to', 'speak', 'at', 'power', '2000', 'hi', 'vinc', 'e', 'it', 'is', 'my', 'great', 'pleasure', 'to', 'invite', 'you',

'to', 'speak', 'at', 'power', '2000', 'which', 'will', 'be', 'in', 'houston', 'on', '9', '10', 'may', '2000', 'would', 'you', 'be', 'interested', 'in', 'chairing', 'one', 'of', 'the', 'streams', 'on', 'day', '2', 'of', 'the', 'conference', 'or', 'making', 'a', 'full', 'presentation', 'on', 'one', 'of', 'the', 'days', 'please', 'let', 'me', 'know', 'which', 'talks', 'interest', 'you', 'obviously', 'some', 'of', 'the', 'talks', 'are', 'no', 'longer', 'available', 'but', 'i', 'would', 'like', 'to', 'give', 'you', 'a', 'choice', 'as', 'much', 'as', 'possible', 'please', 'could', 'you', 'get', 'back', 'to', 'me', 'asap', 'on', '212', '925', '1864', 'ext', '151', 'or', 'by', 'return', 'email', 'i', 'very', 'much', 'hope', 'you', 'can', 'make', 'the', 'dates', 'as', "i'm", 'very', 'keen', 'to', 'have', 'you', 'participate', 'at', 'power', 'not', 'to', 'flatter', 'you', 'unnecessarily', 'but', 'i', 'know', 'that', 'a', 'lot', 'of', 'people', 'come', 'to', 'our', 'conferences', 'to', 'hear', 'what', 'you', 'have', 'to', 'say', 'best', 'regards', 'emma', 'invite', 'doc']

[ilug', 'we', 'need', 'your', 'assistance', 'to', 'invest', 'in', 'your', 'country', 'dear', 'sir', 'madam', 'i', 'am', 'well', 'confident', 'of', 'your', 'capability', 'to', 'assist', 'me', 'in', 'a', 'transaction', 'for', 'mutual', 'benefit', 'of', 'both', 'parties', 'ie', 'me', 'and', 'you', 'i', 'am', 'also', 'believing', 'that', 'you', 'will', 'not', 'expose', 'or', 'betray', 'the', 'trust', 'and', 'confidence', 'i', 'am', 'about', 'to', 'establish', 'with', 'you', 'i', 'have', 'decided', 'to', 'contact', 'you', 'with', 'greatest', 'delight', 'and', 'personal', 'respect', 'well', 'i', 'am', 'victor', 'sankoh', 'son', 'to', 'mr', 'foday', 'sankoh', 'who', 'was', 'arrested', 'by', 'the', 'ecomog', 'peace', 'keeping', 'force', 'months', 'ago', 'in', 'my', 'country', 'sierra', 'leone', 'few', 'days', 'before', 'the', 'arrest', 'of', 'my', 'father', 'he', 'confided', 'in', 'me', 'and', 'ordered', 'me', 'to', 'go', 'to', 'his', 'underground', 'safe', 'and', 'move', 'out', 'immediately', 'with', 'a', 'deposit', 'agreement', 'and', 'cash', 'receipt', 'he', 'made', 'with', 'a', 'security', 'company', 'in', 'abidjan', 'cote', "d'ivoire", 'where', 'he', 'deposited', 'one', 'iron', 'box', 'containing', 'usd', '22', 'million', 'dollars', 'cash', 'twenty', 'two', 'million', 'dollars', 'this', 'money', 'was', 'made', 'from', 'the', 'sell', 'of', 'gold', 'and', 'diamond', 'by', 'my', 'father', 'and', 'he', 'have', 'already', 'decided', 'to', 'use', 'this', 'money', 'for', 'future', 'investment', 'of', 'the', 'family', 'before', 'his', 'arrest', 'thereafter', 'i', 'rushed', 'down', 'to', 'abidjan', 'with', 'these', 'documents', 'and', 'confirmed', 'the', 'deposit', 'of', 'the', 'box', 'by', 'my', 'father', 'also', 'i', 'have', 'been', 'granted', 'political', 'stay', 'as', 'a', 'refugee', 'by', 'the', 'government', 'of', 'cote', "d'ivoire", 'meanwhile', 'my', 'father', 'have', 'instructed', 'me', 'to', 'look', 'for', 'a', 'trusted', 'foreigner', 'who', 'can', 'assist', 'me', 'to', 'move', 'out', 'this', 'money', 'from', 'cote', "d'ivoire", 'immediately', 'for', 'investment', 'based', 'on', 'this', 'i', 'solicit', 'for', 'your', 'assistance', 'to', 'transfer', 'this', 'fund', 'into', 'your', 'account', 'but', 'i', 'will', 'demand', 'for', 'the', 'following', 'requirements', '1', 'could', 'you', 'provide', 'for', 'me', 'a', 'safe', 'bank', 'account', 'where', 'this', 'fund', 'will', 'be', 'transferred

ed', 'to', 'in', 'your', 'country', 'or', 'another', 'neaarby', 'c
ountry', 'where', 'taxation', 'will', 'not', 'takegreat', 'toll',
'on', 'the', 'money', '2', 'could', 'you', 'be', 'able', 'to', 'as
sist', 'me', 'to', 'obtain', 'my', 'travelling', 'papers', 'afte
r', 'this', 'transfer', 'to', 'enable', 'me', 'come', 'over', 't
o', 'meet', 'you', 'in', 'your', 'country', 'for', 'theinvestmen
t', 'of', 'this', 'money', '3', 'could', 'you', 'be', 'able', 't
o', 'introduce', 'me', 'to', 'a', 'profitable', 'business', 'ventu
re', 'that', 'would', 'not', 'require', 'much', 'technical', 'expe
rtise', 'in', 'your', 'country', 'where', 'part', 'of', 'this', 'f
und', 'willbe', 'invested', 'please', 'all', 'these', 'requirement
s', 'are', 'urgently', 'needed', 'as', 'it', 'will', 'enable', 'm
e', 'to', 'establish', 'a', 'stronger', 'business', 'relationshi
p', 'with', 'you', 'hence', 'i', 'will', 'like', 'you', 'to', 'b
e', 'the', 'general', 'overseer', 'of', 'the', 'investment', 'ther
eafter', 'i', 'am', 'a', 'christian', 'and', 'i', 'will', 'pleas
e', 'want', 'you', 'to', 'handle', 'this', 'transaction', 'based',
'on', 'the', 'trust', 'i', 'have', 'established', 'on', 'you', 'fo
r', 'your', 'assistance', 'in', 'this', 'transaction', 'i', 'hav
e', 'decided', 'to', 'offer', 'you', '12', 'percent', 'commissio
n', 'of', 'the', 'total', 'amount', 'at', 'the', 'end', 'of', 'thi
s', 'business', 'the', 'security', 'of', 'this', 'business', 'is',
'very', 'important', 'to', 'me', 'and', 'as', 'such', 'i', 'woul
d', 'like', 'you', 'to', 'keep', 'this', 'business', 'very', 'conf
idential', 'i', 'shall', 'be', 'expecting', 'your', 'urgent', 'rep
ly', 'thank', 'you', 'and', 'god', 'bless', 'you', 'victor', 'sank
oh', 'irish', 'linux', "users'group", 'ilug', 'linux', 'ie', 'htt
p', 'www', 'linux', 'ie', 'mailman', 'listinfo', 'ilug', 'for', 'u
n', 'subscription', 'information', 'list', 'maintainer', 'listmast
er', 'linux', 'ie']

[await', 'your', 'response', 'dear', 'partner', 'we', 'are',
'a', 'team', 'of', 'government', 'officials', 'that', 'belong', 't
o', 'an', 'eight', 'man', 'committee', 'in', 'the', 'presidentia
l', 'cabinet', 'as', 'well', 'as', 'the', 'senate', 'at', 'the',
'moment', 'we', 'will', 'be', 'requiring', 'your', 'assistance',
'in', 'a', 'matter', 'that', 'involves', 'investment', 'of', 'moni
es', 'which', 'we', 'intend', 'to', 'transfer', 'to', 'your', 'acc
ount', 'upon', 'clarification', 'and', 'a', 'workable', 'agreement',
'reached', 'in', 'consummating', 'the', 'project', 'with', 'yo
u', 'based', 'on', 'a', 'recommendation', 'from', 'an', 'associat
e', 'concerning', 'your', 'integrity', 'loyalty', 'and', 'understa
nding', 'we', 'deemed', 'it', 'necessary', 'to', 'contact', 'you',
'accordingly', 'all', 'arrangements', 'in', 'relation', 'to', 'thi
s', 'investment', 'initiative', 'as', 'well', 'as', 'the', 'initia
l', 'capital', 'for', 'its', 'take', 'off', 'has', 'been', 'tactic
ally', 'set', 'aside', 'to', 'commence', 'whatever', 'business',
'you', 'deemed', 'fit', 'that', 'will', 'turn', 'around', 'profi
t', 'favourably', 'we', 'request', 'you', 'immediately', 'contac
t', 'us', 'if', 'you', 'will', 'be', 'favorably', 'disposed', 't
o', 'act', 'as', 'a', 'partner', 'in', 'this', 'venture', 'and',
'possibly', 'will', 'afford', 'us', 'the', 'opportunity', 'to', 'd
iscuss', 'whatever', 'proposal', 'you', 'may', 'come', 'up', 'wit
h', 'also', 'bear', 'in', 'mind', 'that', 'the', 'initial', 'capit
al', 'that', 'we', 'shall', 'send', 'across', 'will', 'not', 'exce

ed', '13', '731', '000', '00', 'usd', 'thirteen', 'million', 'seven', 'hundred', 'and', 'thirty', 'one', 'thousand', 'united', 'states', 'dollars', 'so', 'whatever', 'areas', 'of', 'investment', 'your', 'proposal', 'shall', 'cover', 'please', 'it', 'should', 'be', 'within', 'the', 'set', 'aside', 'capital', 'in', 'this', 'regard', 'the', 'proposal', 'you', 'may', 'wish', 'to', 'discuss', 'with', 'us', 'should', 'be', 'comprehensive', 'enough', 'for', 'our', 'better', 'understanding', 'with', 'special', 'emphasis', 'on', 'the', 'following', '1', 'the', 'tax', 'obligation', 'in', 'your', 'country', '2', 'the', 'initial', 'capital', 'base', 'required', 'in', 'your', 'proposed', 'investment', 'area', 'as', 'well', 'as', '3', 'the', 'legal', 'technicalities', 'in', 'setting', 'up', 'a', 'business', 'in', 'your', 'country', 'with', 'foreigners', 'as', 'share', 'holders', '4', 'the', 'most', 'convenient', 'and', 'secured', 'mode', 'of', 'receiving', 'the', 'funds', 'without', 'our', 'direct', 'involvement', '5', 'your', 'ability', 'to', 'provide', 'a', 'beneficiary', 'partnership', 'account', 'with', 'a', 'minimal', 'deposit', 'where', 'we', 'shall', 'transfer', 'the', 'funds', 'into', 'subsequently', 'another', 'area', 'that', 'we', 'wish', 'to', 'explicitly', 'throw', 'more', 'light', 'on', 'is', 'the', 'process', 'we', 'have', 'conceived', 'in', 'transferring', 'the', 'funds', 'into', 'the', 'account', 'you', 'shall', 'be', 'providing', 'since', 'we', 'are', 'the', 'owners', 'of', 'the', 'funds', 'and', 'the', 'money', 'will', 'be', 'leaving', 'the', 'apex', 'bank', 'of', 'my', 'country', 'we', 'shall', 'purposefully', 'fulfill', 'the', 'legal', 'obligations', 'precedent', 'to', 'transferring', 'such', 'huge', 'amount', 'of', 'funds', 'without', 'arousing', 'suspicion', 'from', 'any', 'quarter', 'as', 'a', 'drug', 'or', 'terrorist', 'related', 'funds', 'and', 'this', 'will', 'assist', 'us', 'in', 'the', 'long', 'run', 'to', 'forestall', 'any', 'form', 'of', 'investigations', 'remember', 'that', 'on', 'no', 'account', 'must', 'we', 'be', 'seen', 'or', 'perceived', 'to', 'be', 'directly', 'connected', 'with', 'the', 'transfer', 'of', 'funds', 'you', 'will', 'be', 'the', 'one', 'to', 'be', 'doing', 'all', 'these', 'and', 'in', 'the', 'course', 'of', 'transfer', 'if', 'for', 'any', 'reason', 'whatsoever', 'you', 'incurred', 'some', 'bills', 'we', 'shall', 'adequately', 'retire', 'same', 'upon', 'the', 'successful', 'confirmation', 'of', 'the', 'funds', 'in', 'your', 'account', 'the', 'commencement', 'of', 'this', 'project', 'is', 'based', 'on', 'your', 'ability', 'to', 'convince', 'us', 'of', 'the', 'need', 'to', 'invest', 'in', 'whatever', 'business', 'you', 'have', 'chosen', 'and', 'to', 'trust', 'your', 'personality', 'and', 'status', 'especially', 'as', 'it', 'concerns', 'the', 'security', 'of', 'the', 'funds', 'in', 'your', 'custody', 'i', 'await', 'your', 'response', 'sincerely', 'john', 'adams', 'chairman', 'senate', 'committee', 'on', 'banks', 'and', 'currency', 'call', 'number', '234', '802', '306', '8507', '11

```

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-----
ValueError                                Traceback (most recent c
all last)
<ipython-input-38-e52140af1079> in <module>()
    24
    25 MultinomialNB_Classifier = MultinomialNB()
--> 26 MultinomialNB_Classifier.fit(training_data, training_label
s)
    27
    28 #not sure how to train the classifier

//anaconda/lib/python2.7/site-packages/sklearn/naive_bayes.pyc in
fit(self, X, y, sample_weight)
    472         Returns self.
    473         """
--> 474         X, y = check_X_y(X, y, 'csr')
    475         _, n_features = X.shape
    476

//anaconda/lib/python2.7/site-packages/sklearn/utils/validation.py
c in check_X_y(X, y, accept_sparse, dtype, order, copy, force_al
l_finite, ensure_2d, allow_nd, multi_output, ensure_min_samples, e
nsure_min_features, y_numeric)
    442         X = check_array(X, accept_sparse, dtype, order, copy,
force_all_finite,
    443                             ensure_2d, allow_nd, ensure_min_sample
s,
--> 444                             ensure_min_features)
    445         if multi_output:
    446             y = check_array(y, 'csr', force_all_finite=True, e
nsure_2d=False,

//anaconda/lib/python2.7/site-packages/sklearn/utils/validation.py
c in check_array(array, accept_sparse, dtype, order, copy, force_a
ll_finite, ensure_2d, allow_nd, ensure_min_samples, ensure_min_fea
tures)
    342         else:
    343             dtype = None
--> 344         array = np.array(array, dtype=dtype, order=order,
copy=copy)
    345         # make sure we actually converted to numeric:
    346         if dtype_numeric and array.dtype.kind == "O":

ValueError: setting an array element with a sequence.

```