

# **DATSCIW261 ASSIGNMENT #2**

Jing Xu

jaling@gmail.com

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
```



```

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|

```

```

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

```

```
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
```



```
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]
```

```
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,
```

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

```
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
```

```
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
```

```
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,
```

```
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
```

```
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
```

```
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
```

```
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,
```

```
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
```

```
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
```

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.tracker 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 [rec/s] out:NA [rec/s]
16/01/26 06:10:32 INFO streaming.PipeMapRed: R/W/S=10/0/0 in:NA [rec/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_0001_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_0001_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://localhost:9000/user/jing/test-output1/_temporary/0/task_local316744563_0001_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_0001_r_000000_0' done.
16/01/26 06:10:32 INFO mapred.LocalJobRunner: Finishing task: attempt_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	
2753	1	
28	10	
2807	1	
281	1	
2868	1	
29	10	
29155	1	
2963	1	
299	1	
3	36	
30	20	
300	9	
3000	2	
3011	1	
306	2	
31	4	
312	1	
3130	1	
31615304791		1
32	12	
321	1	
3267	1	
3300	1	
33155	1	
332	1	
33282	1	
33465	1	
3359	1	
33597	1	
34	4	
3404	1	
3405	2	
34357	1	
345	1	
34710	1	

349	2	
35	2	
35615	1	
35782	1	
36	2	
37	1	
37159	2	
375	1	
38	5	
39	5	
392	2	
39510	2	
399	1	
39934	2	
4	35	
40	9	
4073	1	
409055	1	
41	1	
415	4	
418	4	
419	1	
420	1	
422	4	
423	2	
43	2	
431	1	
436425795822	1	
44	6	
449	1	
45	6	
4500	2	
46	2	
47	2	
474	1	
4748	1	
4887_saa	1	
49	1	
499	2	
5	34	
50	15	
500	8	
5000	3	
5022	1	
51	1	
512517	2	
519	1	
52	3	
521	1	
52109	1	
52477	1	
529	3	
5290	2	
54	4	

54804	1
549	1
55	4
553	1
5555	2
56	1
560	1
57	1
58	1
584	1
59	2
599	1
6	24
60	6
600	1
602	1
609	1
61	2
6207	1
62163	1
62413	1
630	1
6396	1
64	1
642	1
645	2
64610	2
6484	1
66	1
6614102	1
67	2
674	1
6761	1
68	1
69	1
6902	1
69545	1
6992	2
7	32
70	1
700	3
703	1
706	2
71	1
713	6
7168	1
7247	1
7268	3
731	1
735670	1
7358	2
738	1
7394	1
74949	1



75	5	
7517_bybtb		1
7578	1	
76	1	
763	1	
7675213911		1
77	1	
77056	2	
78	2	
783019	1	
783518	1	
7877	6	
789118270		1
793	1	
8	28	
80	5	
800	3	
802	1	
8038	1	
81	2	
816	2	
82	1	
825854664		1
840	1	
8434	1	
847	1	
8507	1	
8561513507		1
869279893		1
87	3	
877	3	
878	1	
8859	10	
888	5	
89	1	
8901_bd_shwc		1
8919	1	
893	1	
9	41	
90	3	
900	1	
908	1	
9100	1	
92	1	
9213	1	
9237	1	
925	2	
928976257		1
9291	1	
932	2	
9381	1	
94105	1	
9434	2	
944	1	

9489	1		
95	15		
95394	1		
96	1		
96006681		1	
9610	1		
964	2		
9643	2		
965	1		
97	1		
973	2		
98	1		
982	1		
986782	1		
99	64		
999	3		
NA	4		
		1	
		you	1
		your	1
_nextpart_001_0080_01	1		
a	542		
a'click	1		
ab	5		
abidjan	2		
ability	2		
able	14		
abn	1		
about	52		
above	11		
absent	1		
absenteeism	1		
absolute	2		
absolutely	1		
absorb	1		
abuse	2		
abused	1		
acce	1		
accelerate	1		
accelerated	1		
accept	3		
acceptable	1		
accepted	1		
accepting	2		
accepts	1		
access	12		
accomodate	4		
accomodates	1		
accompanied	1		
according	2		
accordingly	1		
account	36		
accountability	1		

accounting	5
accounts	1
accrual	2
accurate	1
aches	1
achieve	1
achieved	1
acid	1
acquire	1
acquisition	1
acrobaat	1
acrobat	1
across	10
act	7
action	1
activate	4
active	1
activists	1
activities	10
actor	1
actress	1
actual	4
actually	2
ad	31
adage	1
adams	1
adapted	1
add	12
added	2
adding	2
addition	5
additional	13
additionally	2
address	27
addressed	1
addresses	5
addressing	1
addtional	1
adequately	1
adhesion	1
adm	1
admin_magnumo	1
adminder	2
administration	3
admitted	1
admixture	1
adobe	12
adobee	1
adolescent	1
adr	1
adrianbold	2
ads	5
adult	3
adv	1

advance	4	
advanced		1
advantage		1
advantages		1
advertise		2
advertised		1
advertisement		4
advertisements		1
advertising		7
advertisments		1
advice	4	
advise	2	
advises	1	
advocate		1
advocates		1
advs	1	
aec	2	
aeopublishing		29
afeee	1	
aff_id	1	
affairs	1	
affect	2	
affectate		1
affiliate		2
affiliates		6
afford	1	
afirst	1	
afraid	4	
africa	10	
after	19	
afternoon		4
again	12	
against	6	
age	5	
agendas	1	
agent	3	
aggressive		1
aggressively		3
ago	1	
agonizing		1
agouti	1	
agree	3	
agreed	2	
agreeing		1
agreement		16
agreements		3
ague	1	
ah	1	
ahead	1	
aid	1	
aids	1	
air	6	
airport	2	
airs	1	

aka	1	
akkabay	4	
al	2	
albuquerque	2	
alertness	1	
alex	4	
alexios	1	
alhaji	2	
all	111	
allay	1	
allen	5	
alleviates	1	
alli	1	
allocate	1	
allocated	2	
allocating	2	
allocation	6	
allocations	4	
allow	12	
allows	3	
almost	3	
alone	2	
along	4	
alpra	2	
already	13	
alsdorf	1	
also	56	
alternative	1	
alternatively	1	
although	3	
altra	1	
alum	1	
always	10	
am	86	
amadol	2	
amazed	1	
amb	2	
ambien	2	
ambrose	1	
amended	1	
americ	2	
america	15	
american	2	
amex	1	
ami	1	
amiable	1	
amigo	1	
amitava	4	
among	7	
amortize	4	
amount	7	
amounts	2	
amsterdam	1	
amy	2	

an	77
anabel	1
anal	1
analyses	1
analysis	3
analyst	2
analyze	1
ancillary	2
and	668
andorra	1
andrea	3
angelova	4
angels	2
angrily	1
angry	1
anheuser	1
anita	2
annals	1
annie	2
announcement	7
announcements	4
annoy	1
annoying	1
annuallouy	1
anonymise	1
anonymizer	1
anonymously	1
another	15
answer	7
answered	1
answering	3
answers	7
ante	1
anticipate	1
antivirus	1
antoine	1
any	77
anyare	1
anybody	1
anyhow	5
anyone	5
anyone's	2
anything	11
anyway	2
anywhere	3
anz	2
aol	6
apachi	1
apart	2
apex	1
aphrodite	1
apoligize	2
apollo	1
apologies	2

apologize	3
apparently	2
appeals	4
appear	7
appearance	2
appears	3
appellate	1
appetite	2
application	4
applied	5
apply	4
appreciate	2
appreciated	1
appreciation	2
approach	2
appropriate	3
approval	1
approved	6
approximately	4
aqmd	2
aqoj	1
arbitrage	4
architect	1
archive	1
are	169
area	4
areas	3
aren't	3
argentine	4
argue	1
argument	2
arizona	1
ark	1
arlene	2
arm	1
armstrong	2
around	6
arousing	1
arrange	5
arranged	1
arrangement	2
arrangements	3
arrest	4
arrested	1
arrival	1
art	2
arthur	1
article	3
articles	2
as	138
asap	1
ascii	1
ashburton	3
asia	1

aside	4
ask	9
asked	3
asking	10
asks	1
aspermont	3
assault	1
assay	1
assays	1
assembly	2
assemblyman	3
asset	1
assets	14
assignment	1
assist	7
assistance	10
assistant	2
associate	3
associated	4
association	3
assortment	1
assume	1
assuming	1
assumption	1
assure	4
asthma	1
at	146
ate	3
ativan	1
atop	1
atreus	1
attached	8
attack	1
attacked	1
attatched	2
attempt	1
attend	7
attendance	2
attended	1
attendeess	2
attending	1
attention	3
attest	1
attitudinal	1
attl	1
attn	2
attractive	2
attributable	1
audience	10
audio	2
audit	3
auditor	1
august	1
australia	10



australian	3
australiasds	1
authenticity	1
author	4
authorities	1
authority	1
authorized	1
authors	1
automated	2
automatically	7
automobile	1
availability	2
available	23
average	4
aviation	1
avoid	10
avoided	1
await	4
awaking	1
award	1
aware	1
away	9
awesome	1
ax	2
axe	1
axel	2
ay	1
azepam	2
azurix	10
b	15
b's	1
baby	2
baccarat	1
bachelors	1
back	26
backed	1
background	9
backgrounds	1
backup	2
bacon	1
bacterial	1
bad	5
bade	1
baggage	1
bail	9
bailout	8
balance	1
ballot	1
banging	1
bank	6
bank's	1
banked	1
banker	3
banking	4

bankruptcy	20
banks 1	
bannerco	4
banners 1	
bannersgomlm	8
bar 1	
bareback	1
barely 1	
bargaain	1
barnard 1	
barney 3	
barraged	1
barrier 2	
barrow 1	
base 4	
based 15	
basically	1
basis 5	
baskets 5	
batch 3	
bauxite 1	
bawled 1	
bazzd 1	
bc 1	
bd 6	
bdf 1	
be 221	
beale 1	
beans 1	
bear 4	
beard 1	
beca 1	
became 4	
because 19	
beck 5	
become 6	
bed 1	
bedfellow	1
beds 3	
been 52	
beers 1	
beetcn 1	
before 23	
began 6	
begin 4	
begin_split	1
beginning	4
begins 2	
behalf 1	
being 14	
belgium 1	
believable	2
believe 14	
believed	2

believes	1
believing	1
belong	1
belonged	1
belongs	2
below	16
benchmarks	3
bendickson	2
benedicta	2
beneficiary	1
benefit	10
benefits	11
beneteau	1
bennett	1
benson	1
ber	1
berkovitz	2
bernice	1
best	27
bestowal	1
bestwaytoshop	1
betray	1
better	10
between	7
beware	1
beyond	3
bgmlm	1
bharat	1
bid	1
big	10
biggest	1
bill	8
billed	2
billion	6
bills	6
birch	1
bit	2
biwven	1
biz	4
bjwl	1
blainey	1
bless	3
blessed	2
block	5
blocked	2
blocking	2
blood	1
blows	1
blues	2
blush	1
bmar	1
bmf	1
bmlm	4
board	3

bob	7	
bodies	1	
body	9	
bodyfrankfurter	1	
bold	2	
bolnisi	1	
bombs	3	
bond	1	
bondholders		1
bonds	6	
bone	1	
bonnard	1	
bonus	5	
bonuses	4	
book	5	
books	2	
boost	1	
boosts	1	
booth	1	
boots	1	
booze	1	
borlan	1	
borland	1	
borrowers		1
boss	1	
both	15	
bother	1	
bottom	2	
bought	3	
bound	2	
boundary		1
box	20	
boxes	1	
boy	2	
bp	3	
br	2	
brad	2	
bradford		1
brainstorm		1
brand	6	
branded	1	
branding		8
brazil	8	
brazilian		4
break	5	
breaking		1
breakthrough		1
breath	5	
breathe	2	
brenda	1	
brennan	2	
brent	2	
brett	3	
brex	2	

brian	1	
brick	5	
bridge	1	
brighton		1
brim	1	
bring	1	
brings	5	
broad	2	
broker	3	
brought	1	
brown	3	
browser	2	
brutal	1	
bryan	6	
bs	2	
btu	2	
buchsbaum		1
buck	1	
bucolic	1	
build	12	
building		7
buildings		1
buka	2	
bull	1	
bullet	5	
bulleted		2
bullets	1	
burning	2	
burst	1	
burton	11	
burton's		2
bus	4	
busine	1	
busines	1	
business		64
businesses		4
businessopps		2
bussell	1	
busy	1	
but	67	
butler	1	
button	1	
buy	8	
buybacks		1
buying	1	
by	143	
bybb	1	
bye	1	
byee	2	
bypass	1	
bypasses		1
bytesize		1
c	18	
ca	3	

ca'	3	
cabinet	1	
cabinets		1
caboose	1	
cage	1	
cagey	1	
cal	3	
calamity		2
calculations		2
cali	1	
california		12
call	15	
called	3	
calme	1	
calpine	3	
came	2	
camp	7	
campus	1	
can	90	
canada	4	
canadian		1
canary	1	
cancel	1	
candidate		1
cankerworm		1
cannot	5	
cano	1	
canyonu's		1
capabilities		1
capability		3
capacity		2
capital	7	
capitalisation		1
capitalize		2
capitol	1	
car	6	
card	5	
cards	5	
care	9	
careful	1	
carefully		4
cares	1	
cargill	2	
carlo	1	
carlos	5	
carmody	1	
carol	1	
carolyn	1	
carrera	1	
carriage		1
carrie	1	
carried	1	
carroll	6	
carry	1	

cars	4
cart	2
case	13
cases	2
cash	18
cashpo	2
cashpromotions	4
casinos	2
cat	2
catalog	5
catalyze	2
catchy	1
category	2
caucasians	1
caught	1
cause	1
caused	1
causey	7
cc	40
ccprod	3
cd	2
ceased	1
cede	1
cele	2
celebrate	1
celebration	3
cell	1
cellulite	1
cemented	1
cent	1
center	12
central	3
cents	7
century	1
ceo	1
ceos	1
cernosek	1
certain	1
certainly	4
certificates	1
cgi	5
cha	1
chaeap	1
chairing	1
chairman	4
challenge	1
challenges	1
challenging	3
chambers	1
champion	3
chance	6
chances	4
chancesto	1
change	16

changed	1
changes	4
changing	1
channel	1
chapman	4
char	2
charge	11
charges	1
charlie	1
charset	11
chart	1
charter	2
chartroom	1
charts	2
chatham	1
cheaep	1
cheap	1
cheapsoft	3
cheated	4
check	3
checking	4
checks	1
cheep	1
cheeky	1
cheers	1
chewing	2
chief	4
child	3
children	3
chile	1
chile's	1
chill	1
china	2
china's	1
chinamen	1
chinese	1
chip	1
chirano	4
chisholm	1
choice	2
chokshi	1
cholesterol	1
choose	4
chosen	4
chris	1
christi	1
christian	1
christine	1
christmas	20
chromium	1
chronicles	1
chumming	1
chums	1
chunk	1



cialis	2
cigars	1
cindy	5
cinergy	1
circumstances	1
citizens	2
citrus	2
city	5
civilizirano	1
cj	5
ckgby	1
ckily	1
claiis	1
claim	3
claimed	1
claiming	1
claims	4
clamp	1
clare	1
clarification	2
clarity	1
clark	1
class	2
classes	1
classic	1
classifieds	1
classrom	1
claudé	1
clear	12
clearing	1
clearly	1
clem	1
clemmons	1
clemons	1
click	40
clicking	1
client	1
clients	1
cliffhanger	2
cliickk	2
climate	1
clinches	1
clinging	1
clips	1
clon	2
clonazepam	1
close	6
closed	1
closely	5
closer	1
closure	1
clu	1
club	1
cmenergy	1

co	5	
coaching		1
coal	2	
coastenergy		1
cobalt	1	
cochilco		1
coding	2	
coe	4	
coffee	5	
cohen	1	
cold	2	
coleman	1	
collaborate		3
collect	2	
college	3	
colloquy		1
color	19	
colored	2	
colors	1	
colour	1	
columnar		1
com	156	
com'	69	
com		1
com		today's
1		
combo	1	
comclick		1
come	19	
comes	6	
comhttp	1	
coming	5	
commence		2
commenced		1
commencement		1
commentaries		3
commentary		18
commentaryto		1
comments		13
commercial		20
commission		3
commissions		2
committee		2
commodities		1
commodity		8
common	2	
communicate		2
communicating		2
communication		9
communities		3
community		23
companies		8
company	22	
company's		3

compare	6
compared	1
compelling	1
compensation	2
compete	2
competencies	2
competing	3
competition	2
competitive	3
complete	4
completed	2
completely	2
completing	1
completion	3
compliance	1
complicated	3
complications	1
complimentary	1
compliments	1
components	1
comprehensive	1
computational	1
computer	7
comwww	11
concealed	2
conceived	1
concept	1
concern	1
concerned	1
concernig	2
concerning	8
concerns	4
concluding	2
condition	2
conduct	2
conductor	1
conference	7
conferences	1
confided	1
confidence	1
confident	1
confidential	5
configuration	1
confirmation	3
confirmations	5
confirmed	1
conflict	1
confuses	1
confusing	1
congrats	1
congratulations	6
congratulatory	1
conn	1
connected	1

connection	3
connective	1
conscience	1
consciously	1
consequently	1
consider	4
considered	1
consistent	1
consistently	2
consisting	1
consolidation	6
constantly	1
consternation	1
construction	1
constructive	1
consultant	3
consultation	2
consumer	5
consumers	3
consuming	1
contact	31
contacts	1
containing	3
contains	4
contemplation	1
content	13
continents	1
continue	15
continued	3
continues	3
continuing	1
contract	10
contracted	2
contracts	12
contratulations	1
contribution	1
control	8
controlled	2
controls	6
convenience	1
convenient	1
conversation	1
conversations	1
convince	2
convincible	1
cook	3
cool	3
cooler	1
cooperation	3
coordinate	5
coordinating	1
coordination	3
coordinator	1
cop	2

copartnery	1
copenhagen	1
copper	7
copy	12
copying	1
copyright	7
coral	4
cordes	1
core	1
corel	4
coreldraw	2
corey	2
cornet	2
corp	31
corporate	8
corporation	4
correction	2
correspondence	2
cost	8
costed	1
costs	2
cote	3
cotroneo	1
cough	1
could	18
couldn't	1
counted	1
counterparty	2
countries	2
country	23
couple	2
course	11
courses	1
court	4
courtesy	1
cover	2
coverage	3
cowry	1
cp	1
cpm	6
cpuc	3
craft	1
craig	1
crank	1
crapbedspring	1
crawled	1
crazy	1
cre	1
create	13
created	7
creates	2
creating	2
creation	3
creativity	1

credi	1
credibility	1
credit	20
creditor	1
creditors	4
credits	1
crenshaw	13
crespigny	2
crest	1
critical	10
critically	2
critique	1
crooked	1
cross	3
crowd	2
crowdbut	1
cryogenic	1
crystal	2
cs	2
csikos	1
cst	1
cultural	1
cure	2
cures	1
curio	1
currency	1
current	9
currently	16
curricula	1
curriculum	5
curtain	1
cushion	1
custody	1
custom	1
customer	23
customer's	1
customers	4
customizable	1
cuts	1
cyberopps	2
cynthia	1
czkkrxht	1
d	26
d'arcy	7
d'ivoire	3
d'souza	1
dahlienweg	1
daily	3
dale	1
damage	1
damages	1
damned	1
damorganjr	1
damorgarjr	1

dana	1	
dancing	1	
dangerous		1
daniel	2	
danielle		2
daniels	1	
danny	1	
daren	7	
darren	2	
database		1
datacenter		1
date	5	
dates	4	
dave	9	
davenport		1
david	19	
davis	7	
davis'attempt		1
davis'end		1
davis's	1	
daw	1	
dawn	1	
day	22	
days	10	
daysor	1	
daytime	2	
dc	1	
dci	1	
dclemons		1
dcoit	1	
de	3	
dea	1	
dead	3	
deadline		6
deadlines		1
deal	15	
deals	3	
dean	1	
dear	6	
death	3	
debt	12	
debts	2	
dec	11	
december		19
decided	5	
decides	1	
decision		2
decreases		1
deeds	2	
deemed	2	
deep	1	
deeper	1	
defeat	1	
deficient		1

defined	1
delainey	8
delay	1
delayed	2
delays	2
delegating	1
delete	8
delight	1
delinquent	1
deliv	2
deliver	1
delivered	5
deliveries	2
delivering	1
delivery	11
delphi	1
delusive	1
delux	1
demand	3
democratic	2
democrats	3
demonstrate	2
denied	1
dennis	3
density	1
denys	1
department	1
depending	2
deposit	4
deposited	3
deposits	2
depression	1
dept	2
derivatives	3
descendent	1
described	2
description	2
desert	1
design	9
designed	5
designl	1
designs	4
desire	3
desk	12
desks	2
desktop	1
desmeules	1
desperate	1
despise	1
despite	2
destination	2
destroy	1
detail	2
detailed	4



details	3
determine	1
detract	1
developed	5
developing	2
development	14
device	1
devoid	1
dextails	1
dfur	1
dhar	4
dhyngem	1
dial	2
diamond	2
diamonds	1
diane	1
diaz	2
dicine	1
dictate	1
dictating	1
dictionary	1
did	8
didn't	4
didrex	1
different	5
difficult	5
difficulty	1
digging	1
digital	1
dignity	1
digression	1
diligence	1
diminished	1
dinner	2
direct	4
directed	1
directing	1
direction	4
directions	4
directly	7
director	6
directories	2
dirtier	1
disable	1
disagreement	1
disappearance	1
disappointed	1
discarded	3
disclaimer	1
disclosed	2
discontinue	2
discoount	1
discoouunt	1
discounnt	1

discount	1
discounted	1
discounts	1
discover	3
discretely	1
discretion	1
discuss	6
discussed	2
discussion	8
disease	1
dish	3
dishes	1
disintegration	1
dismissed	1
disordersclump	1
disordersshrink	1
disparate	1
displayed	1
disposed	1
disqualified	1
dissemination	1
distance	5
distort	1
distracted	1
distributed	1
distribution	3
distributions	2
district	4
ditch	1
divert	1
diverted	1
divided	1
division	1
dnb	1
do	41
dobmeos	1
doc	3
doctor	2
doctoral	1
doctors	2
doctrine	4
documenting	2
documents	4
does	11
doesn't	10
doff	1
dog	1
doing	6
dol	1
dollar	1
dollars	7
dolls	1
domain	5
domestic	1

don't	32	
done	6	
dont	1	
door	5	
double	2	
doubt	3	
doubts	1	
down	11	
download		1
dozens	1	
draft	2	
drafting		1
dramatic		1
draw	5	
drawing	5	
drawn	2	
dreamwaver		2
drew	3	
drinking		2
drive	2	
drives	1	
drown	1	
drowning		1
drug	1	
drugs	2	
dryblower		1
dubhe	1	
dubuque	3	
duck	1	
due	9	
duke	4	
dunns	1	
duns	2	
duplicate		1
during	9	
dutchess		1
dutyfreesoft		1
dvd	1	
dwr	3	
dxqrgu	1	
dycmpf	1	
dynamic	2	
dynamically		1
dynamics		2
dynegy	11	
e	60	
each	27	
earlier	4	
early	8	
earn	6	
earning	1	
earth	1	
earths	1	
easily	4	

east	1	
eastern	1	
easy	16	
eat	3	
eatables		1
eating	2	
eb	16	
eb1	1	
ebook	3	
ebooks	1	
ebs	1	
ecarmst	1	
eclassifiedshq	1	
ecole	1	
ecom	1	
ecomog	3	
economic		2
economically		1
economics		1
economy	1	
ect	382	
ed	1	
edge	1	
edison	3	
edison's		1
edit	11	
edition	5	
editor	3	
editorial		1
edt	2	
ee	2	
ees	10	
effect	2	
effective		11
effectively		5
effects	1	
efficiency		2
effort	6	
efforts	2	
efs	1	
egep	1	
ego	2	
eh	1	
ehronline		1
eiben	1	
eight	2	
eighty	1	
eileen	1	
eincomplete		1
either	9	
el	2	
elbow	1	
elderly	1	
election		1

elections	1
electric	1
electricity	1
eliminate	3
eliminates	1
eliminationstop	1
ellendale	2
ello	1
elmira	1
else	2
elses	2
emai	1
email	46
emailing	2
embargo	1
emeet	1
emerged	1
emerging	2
emigrant	1
emigrants	1
eminent	2
emma	1
emotion	1
emotional	1
emove	1
emphasis	1
emphasize	1
emphatically	1
employed	2
employee	6
employees	7
employer	1
employment	1
empowered	1
en	3
ena	10
enable	4
enacted	2
encarta	1
encoding	2
encompassing	1
encounters	1
encourage	4
encouraged	3
encyclopedia	1
end	18
ending	2
endless	1
endorsements	1
ends	1
energetic	1
energy	44
eneric	1
eng	1

engageenergy	1	
engine	3	
engineergeodetic		1
engineering	2	
engines	2	
enhance	3	
enhancing	1	
enjoy	2	
enormous	1	
enough	6	
enron	123	
enron's	2	
enron_development		2
enrononline	4	
ensure	3	
ensuring	2	
enter	7	
entered	10	
entergy	4	
entergy's	2	
entergyr	1	
entering	2	
enterprise	4	
enters	1	
entertaining	1	
entex	14	
entire	2	
entirely	2	
entity	3	
entries	3	
entry	1	
environment	3	
environmental	1	
envy	1	
eo	1	
eops	1	
epam	2	
epcm	2	
epenergy	5	
epmi	2	
eprm	1	
epsc	1	
equity	5	
equivelant	1	
er	2	
ere	1	
ernest	1	
erroneously	1	
error	8	
errors	6	
esa	1	
escape	2	
esiear	2	
especially	1	

especially	4
essentially	1
est	1
establish	8
established	3
establishes	1
establishthe	1
estimate	2
etacitne	1
etc	9
eternal	1
ethic	1
etringer	2
europe	1
european	2
evaluate	2
evaluating	1
evaluation	1
evelon	1
even	16
evening	3
events	2
eventually	2
ever	5
every	14
everyday	2
everyone	15
everyone's	2
everything	8
evolution	1
eworld	4
exact	2
exactly	4
exaggerate	1
examination	1
examine	3
examining	1
examining	1
example	7
examples	1
exceed	1
exceeded	2
excellent	4
except	1
exception	1
excerpts	1
excess	1
exchange	13
exchanges	1
exchanging	1
excited	3
exciting	1
excluding	2
exclusive	1

execute	1
executed	1
executing	2
execution	1
executive	6
executives	1
exemptions	2
exhausted	1
exhibit	5
exhibits	2
exist	2
existing	5
expanded	1
expanding	1
expanse	1
expect	9
expectation	2
expectations	4
expected	6
expecting	2
expects	3
expended	1
expenditures	1
expenses	3
experience	17
experiences	1
experiment	1
expertise	8
expire	1
expired	1
explain	2
explained	1
explaining	2
explains	2
explicitly	1
exploration	2
explorer	3
exploring	2
expose	1
exposure	2
express	4
expressed	1
expressway	1
ext	3
extend	1
extended	3
extension	1
extent	1
externally	2
extra	7
extremal	1
extreme	1
exultant	1
eye	1



eyebrow	2		
eyes	2		
ezine	4		
ezine			1
f	1		
fabacibo		1	
face	1		
facelift		1	
faces	1		
facilitate		4	
facilitators		1	
facility		1	
facilities		1	
fact	8		
factor	1		
factual	1		
faded	1		
fails	1		
fainted	1		
fair	2		
faith	1		
fall	2		
fallon	1		
fame	3		
families		2	
family	3		
famous	1		
fanny	1		
fantastic		1	
far	5		
farm	1		
farmer	5		
fashion	1		
fast	4		
faster	2		
fat	1		
father	4		
fathers	1		
fattroglodyte		1	
fault	1		
favor	4		
favorably		1	
favorite		7	
favourably		1	
fax	9		
fe_s	1		
fear	4		
feature	1		
featured		2	
features		6	
feb	3		
february		10	
federal	4		
fee	6		

feel	19	
feeling	3	
feelings		1
fees	1	
feet	1	
feliipe	2	
fell	2	
fellow	1	
felt	2	
female	3	
few	12	
ffffa	2	
fh	2	
fiducial		1
field	3	
fields	1	
fifteen	1	
fifth	1	
fight	2	
figure	1	
figured	1	
file	6	
filed	6	
files	3	
filing	11	
fill	6	
filled	2	
filling	1	
filter	1	
final	6	
finalization		2
finalize		1
finally	3	
finance	4	
financial		12
financials		1
financing		4
find	5	
finding	1	
fine	2	
finger	1	
finished		6
finishing		1
finland	1	
fior	2	
fioricet		1
fired	1	
fireworks		1
firing	1	
firm	5	
first	34	
fischer	1	
fishbeck		1
fit	2	

five	3	
fixed	1	
fl	1	
flash	2	
flat	5	
flatter	1	
flight	1	
flip	1	
fln	1	
floe	1	
flood	2	
floods	1	
floor	4	
flow	8	
fluid	1	
flustrated		1
flutter	1	
flyers	1	
flynn	1	
focus	4	
focusing		4
foday	1	
folks	3	
follow	10	
followed		2
following		27
font	3	
fonts	2	
foo	1	
foolishness		1
foot	3	
footmen	1	
fooxr	1	
for	373	
for'sponsoring		1
forbearance		4
force	5	
forced	1	
forces	5	
forcing	1	
ford	1	
forecast		1
forecasts		2
foreigner		1
foreigners		1
forest	1	
forestall		1
foretell		1
forever	3	
forget	1	
forgotten		1
forhome	1	
fork	2	
form	11	

formal	1	
formally		2
format	3	
forms	1	
formula	2	
formulated		1
forp	1	
fort	1	
forthis	1	
fortunately		2
forty	1	
forum	1	
forward	13	
forwarded		29
forwarding		1
found	6	
founder	1	
founding		1
four	8	
fp	1	
fraction		4
frame	1	
frames	1	
fran	2	
francisco		1
frank	1	
fraternal		1
fraud	1	
fred	1	
free	86	
freebie	2	
freehand		1
freelinksnetwork		4
freeonline		1
freepicklotto		2
freese	1	
freeze	3	
frequently		1
frevert	3	
friday	6	
friend	2	
friends	3	
frightened		1
frightrob		1
from	135	
front	3	
fronts	1	
frqee	1	
fruit	1	
frusco	3	
frustration		1
ft	2	
ftp	1	
fuel	1	

fulfill	2	
full	28	
fully	3	
fun	5	
function		5
functionality		4
functions		5
fund	4	
fundamental		2
funded	1	
funding	1	
funds	10	
fuohqjlsjcqp		1
further	9	
furthermore		1
future	14	
fw	3	
fyi	6	
fyl	2	
g	32	
gaining	1	
game	4	
gary	6	
gas	37	
gb	1	
gee	1	
gemstone		1
general	5	
generalist		1
generalities		1
generalize		1
generalizing		1
generate		1
generating		2
generation		5
generators		2
generic	6	
genuine	2	
geoffrey		1
geographic		4
geomatics		1
george	9	
georgel	2	
georgia	1	
germany	3	
gerry	2	
ges	2	
get	76	
gets	3	
getterscan		1
getthe	1	
getting	8	
getyour	1	
ghana	2	

ghz	1	
gibner	8	
gibson	1	
gift	13	
gifts	2	
gigabyte		1
gilbert	1	
gilchrist		1
gimg	1	
ginsu	1	
girl	4	
gis	2	
gist	2	
giv	1	
give	17	
glad	1	
glandular		1
glaspie	1	
glencore		2
glenda	1	
global	44	
globe	3	
glover	1	
glut	1	
gmx	2	
go	11	
goage	1	
goal	5	
goals	1	
goatee	1	
god	3	
godly	1	
goes	1	
going	27	
gold	14	
golnaraghi		1
gone	2	
gonzalez		1
good	23	
goodbye	1	
goodmorning		2
goods	1	
gosnell	1	
got	7	
gov	1	
government		7
governor		5
gpg	1	
gpt	1	
gra	3	
grabbing		1
grabs	1	
gracie	2	
grade	2	

grading	1	
gradually		1
grammar	1	
grand	3	
grandfathered		1
grandma	1	
grant	6	
granted	1	
granting		1
graphics		5
gratis	1	
gravel	1	
graves	2	
gray	2	
great	20	
greater	1	
greatest		2
greatly	1	
greedily		1
greeted	1	
greetings		1
greg	3	
gregory	1	
griddle	1	
grief	1	
grizzly	1	
gross	3	
ground	1	
group	21	
groups	4	
growing	1	
grown	2	
growth	4	
gs	1	
gssgeomatics		1
guarantee		5
guaranteed		4
guerrilla		1
guess	1	
guides	1	
guinea	1	
gullweig		1
gunners	1	
guns	1	
guru	2	
gutierrez		1
guy	2	
guys	3	
gwen	1	
gxol	1	
gxxu	1	
h	7	
habitually		1
had	20	

hair	1	
half	2	
hall	2	
hand	5	
handle	1	
handled	2	
hands	2	
hang	1	
hangover		1
happen	4	
happens	1	
happy	4	
harbour	1	
hard	10	
hardly	2	
hardware		1
harriman		1
harris	2	
harrison		2
harvey	4	
has	67	
hash	1	
hassle	2	
hate	4	
haunch	1	
have	170	
having	6	
hc	2	
hcokyovrdsprayz	1	
he	46	
he's	1	
head	3	
headache		1
headachesmerle		1
heading	1	
headline		2
headlines		4
heal	1	
healing	1	
health	2	
hear	3	
heard	2	
hearers	1	
heart	1	
heartburnwestfield		1
heathman		1
heating	2	
held	6	
hello	6	
help	16	
helpdesk		2
helped	1	
helpful	2	
helping	3	



helpless 2  
 helps 2  
 hemingway 1  
 hemisphere 2  
 hence 1  
 hendricks 2  
 heno 1  
 her 12  
 herbalonline 1  
 herbs 1  
 here 55  
 here's 4  
 here'underneath 1  
 her  
 e

---

 be 1

herem 1  
 herewe 1  
 herod 1  
 hesitate 4  
 hey 2  
 hgh 5  
 hi 2  
 hidd 2  
 high 15  
 higher 4  
 highlands 2  
 highlight 3  
 highly 1  
 highs 1  
 hijacked 2  
 hike 1  
 hikes 4  
 hillis 1  
 hillmancarthage 1  
 him 9  
 himhe 1  
 himself 1  
 hindering 1  
 hinsch 2  
 hint 1  
 hire 2  
 his 39  
 historical 3  
 history 2  
 hit 2  
 hje 1  
 hm 1  
 hme 1  
 ho 3  
 hoffman 2  
 hold 3  
 holders 1  
 holding 1

holiday	3	
holidays		2
home	20	
homemakers		1
homes	2	
homestead		1
hone	1	
honest	1	
honesty	1	
hood	1	
hook	2	
hope	9	
hopefully		2
hopes	1	
hopkins	1	
horizons		1
hormone	2	
horn'and		1
hornbuckle		1
horror	1	
horse	2	
host	1	
hosted	1	
hot	2	
hotmail	2	
hottest	1	
hou	206	
hour	1	
hourhelp		1
hours	26	
house	1	
houston	13	
how	36	
howard	14	
however	14	
howl	1	
hp	1	
hpl	12	
hplc	1	
hplr	1	
hr	14	
hrgovcic		5
hrice	2	
hris	1	
ht	4	
htm	2	
html	9	
http	65	
huang	4	
hubs	3	
huge	2	
hulmeville		1
human	14	
humble	1	

humility	2
hundred	2
hundreds	2
hunger	1
hungry	1
hunt	1
hunter	2
hurdles	1
hurrah	1
hurry	4
hurtling	1
husband	4
hyde	1
hydro	2
hydroxylate	1
hype	1
hzriubp	1
i	246
i'd	2
i'll	5
i'm	7
i've	9
iaain	1
ica	1
icet	2
icon	1
icop	1
id	13
idea	5
ideas	6
identified	1
identifies	1
identify	2
idiot	1
idirect	1
ids	1
ie	4
ien	2
if	107
igh	1
ihf	1
ii	3
illness	1
illustrate	2
illustration	1
illustrator	2
ilug	3
im	1
image	9
imagine	1
imaging	1
imitate	2
immediate	2
immediately	22

imminent	1
immunity	1
impact	3
impacted	1
impacts	1
impaired	1
impede	1
imperial	2
implement	1
implementation	9
implementing	1
important	12
importantly	1
impossible	1
impresses	1
impression	3
impressive	1
improve	1
improved	5
improving	1
impulse	1
in	417
iname	1
inappropriate	1
inbox	1
inc	12
incessantly	1
include	12
included	8
includes	1
including	16
inclusive	1
income	4
incomeunlimited	1
incorporated	1
incorrectly	1
increase	12
increased	5
increases	2
increasing	4
increasingly	1
incredibly	1
incredible	1
incredibly	1
incurred	3
india	1
indicated	1
indication	1
indicator	1
indices	1
individual	8
individualized	3
individuals	4
indubitable	1

industries	1
industry	9
inferior	1
influence	2
info	8
info'and	1
inform	3
information	71
informative	1
informed	4
infrastructure	1
inherently	1
initial	7
initializes	1
initially	4
initiative	3
inject	1
injunction	1
inlcuding	1
inlet	4
innovation	4
innovative	2
innovatus	1
input	6
inputs	1
insane	2
inseminate	1
inside	2
insider	2
insomnia	1
inspection	1
instantaneous	1
instantly	2
instead	3
institutions	1
instruct	1
instructed	3
instructions	4
instructs	1
instrument	1
instruments	1
insufficient	1
insults	1
insurance	6
insure	7
integrated	2
integrity	2
intelligence	1
intelt	1
intend	3
intended	1
intends	2
intense	1
intercreditor	1

interest	12
interested	10
interesting	3
interests	7
interfering	1
intermediary	2
internal	9
internally	2
international	7
interne 1	
internet	30
interrupted	1
interstate	1
intervened	2
intl 2	
into 36	
intra 1	
intranet	3
introduce	1
introduced	3
introducing	1
invest 4	
invested	1
investigations	1
investment	18
investor	1
investors	1
invitation	1
invite 6	
invoices	1
involuntary	8
involved	7
involvement	1
involves	1
involving	2
invovled	2
ion 1	
iowa 1	
ipos 1	
ipp 2	
ipps 6	
irish 1	
iron 2	
is 249	
isalso 1	
island 2	
isn't 3	
iso 10	
isp 8	
isps 3	
issler 5	
issue 21	
issued 4	
issues 19	

it	162	
it's	30	
iteam	1	
item	3	
items	15	
its	27	
itself	3	
ium	2	
ivan	2	
ivernia	2	
j	22	
ja	1	
jackie	1	
jan	4	
jana	3	
jane	1	
janet	1	
janice	1	
janie	1	
january	2	
japan	3	
jason	5	
jauregui		1
jeff	6	
jersey	1	
jim	3	
jimmy	2	
jirapliegao		1
jm	6	
jo	1	
joao	2	
job	3	
joe	1	
joel	4	
joel_rosel		2
johannesburg		2
john	21	
johnny	2	
johnston		2
join	10	
joinder	1	
joined	3	
joining	4	
joint	1	
jon	1	
jonathon		1
jones	2	
jose	1	
joseph	7	
josey	7	
journey	1	
journeys		1
joyce	1	
jpxdltmuk		1

jsp	3	
jturco	2	
jubilar	1	
judge	3	
judgment		1
judgments		1
julie	5	
july	2	
june	11	
junk	2	
just	47	
justperform		1
jvbe	1	
k	4	
kainantu		2
kaminski		11
kaolin	1	
karen	1	
kaskaskia		1
katamail		1
kathryn	3	
kathy	1	
kay	5	
kcs	2	
keeley	2	
keeley's		3
keen	1	
keep	21	
keeping	4	
kept	2	
kerb	1	
kevin	48	
key	10	
keyboard		2
keyes	1	
keys	1	
keyword	4	
keywordcount		1
keywords		2
kfbtyra	1	
kg	3	
khanna	1	
kick	1	
kickoff	2	
kid	1	
killed	2	
killer	1	
killings		2
kim	3	
kimberley		3
kimberly		5
kincaid	2	
kind	7	
kinda	2	



kindall	4	
kindly	1	
kinds	2	
king	5	
kish	1	
kistler	1	
kitchen	3	
kk	1	
klei	1	
knave	3	
knelt	1	
knew	3	
knights	1	
knives	1	
know	42	
knowledge		4
knowlton		1
known	4	
knows	2	
knudsen	1	
kokas	1	
kollaros		1
korea	1	
koromah	2	
krgp	2	
kri	2	
krill	1	
krishna	1	
krishnarao		5
kristin	2	
kvie	1	
kwh	2	
kyle	1	
l	12	
label	2	
labor	2	
laborious		1
lack	1	
lacrechia		1
lagars	1	
lagrasta		1
lamb	1	
lamproite		2
lamps	1	
land	1	
language		3
lanterns		1
large	8	
larger	3	
largest	2	
last	18	
lasts	1	
late	5	
later	12	

latin	1	
laughed	1	
launch	2	
lauri	4	
lavorato		6
law	5	
lawn	3	
layout	3	
layouts	1	
lcd	1	
lead	10	
leaders	1	
leadership		13
leads	11	
leap	1	
learn	4	
learned	2	
learning		3
learns	2	
lease	1	
least	12	
leave	4	
leaving	2	
lee	1	
leederville		1
left	5	
legal	3	
legislative		1
legislator		1
legislators		2
legislature		9
legs	3	
lehr	1	
lemelman		1
lend	2	
lender	2	
lenders	4	
length	1	
lengthen		1
leone	5	
less	20	
lesson	5	
let	32	
let's	3	
lets	1	
letter	27	
letters	11	
level	4	
levels	2	
leverage		1
liar	2	
licence	1	
licensing		1
life	12	

lifetime	1
lift	1
lifted	1
lifts	1
light	1
like	54
liked	1
likelihood	2
likely	7
likes	1
lilly	1
limitations	1
limited	14
limitless	2
lin	6
linda	4
linda's	1
lindiwe	2
line	21
lineal	1
lines	1
lingerie	2
link	6
linkpaks	4
links	30
linktocash	1
linux	4
lips	1
liquid	1
liquids	1
lisa	2
list	18
listed	7
listen	2
listened	1
listinfo	3
listmaster	1
lists	2
lit	1
literally	1
literature	1
litteneker	1
litterbug	1
little	9
live	1
living	3
liz	3
llc	2
loads	1
loan	4
lobby	1
lobster	1
local	6
locally	2

locals	1	
located	4	
location		11
lock	2	
locomotive		1
loczk	1	
loft	2	
lollipops		1
london	4	
long	18	
longer	4	
look	14	
looked	1	
looking	4	
looks	5	
loosening		1
lose	2	
loses	2	
losing	2	
loss	1	
lot	10	
lots	2	
lottery	6	
louise	8	
lounsbury		1
love	2	
low	10	
lower	1	
lowest	1	
loyal	2	
loyalty	1	
lsc	1	
lst	2	
ltd	2	
lu	5	
luck	2	
lucky	2	
lump	1	
lunch	2	
luo	1	
luong	1	
lx	1	
lycopodium		1
lyn	7	
lynch	1	
lynda	1	
m	26	
ma	2	
macarthur		1
machine	1	
mackey	1	
macquarie		2
macromedia		6
madam	2	

made	15	
magellan		1
magnesium		1
magnum	1	
maidens	1	
mail	32	
mailing	3	
mailings		2
mailman	3	
mailto	11	
main	1	
maine	1	
maintain		2
maintainer		1
major	5	
make	35	
makecashonline		1
makes	5	
making	17	
male	3	
malina	4	
man	5	
manage	3	
managed	7	
management		54
manager	8	
managerial		2
managers		1
manages	3	
managing		1
managment		4
mandated		1
manganese		1
manitoba		1
manual	2	
manufacturers		1
many	24	
mark	8	
market	12	
marketability		2
marketer		1
marketers		1
marketing		28
markets	5	
marks	2	
marla	1	
martensite		1
martin	7	
martina	4	
martinez		1
mary	7	
maryam	1	
mass	3	
massey	1	

masson	5	
master	3	
match	2	
matches	4	
material		1
materials		2
matt	1	
matter	6	
maureen	5	
mauricio		1
may	27	
maybe	4	
mayerbrown		1
mayes	1	
mb	1	
mc	1	
mcbeal	1	
mccullough		1
mcf	2	
mclafferty		1
mclarney		2
mclean	1	
mcmullen		2
mcsberry		1
me	75	
mean	1	
means	6	
meant	1	
meanwhile		3
measure	1	
measuring		3
mechanism		1
media	3	
medical	1	
medication		1
medications		1
mediums	1	
meet	9	
meeting	19	
meetings		7
mega	2	
melissa	3	
melodick		1
member	21	
members	14	
membership		19
memo	3	
memo's	1	
memory	3	
men	5	
mental	2	
mention	3	
mentioned		5
merchandise		3

merchandisethat	1
merchant	5
merchants	1
merely	1
merry	2
mesopotamia	1
message	20
metal	1
metaphors	1
meter	13
meters	3
method	1
methods	1
mexico	1
meyers	1
mg	2
miami	1
michael	8
ichelago	2
michele	1
micros	2
microsale	8
microsoft	6
mid	3
midwestern	1
might	12
mighty	1
migraine	1
miguel	1
mike	11
mild	2
milestone	1
militarism	1
millenium	1
milller	1
million	17
millions	2
mime	1
min	2
mind	15
minds	1
mine	7
mineral	2
minerals	4
mines	1
mini	1
minimal	1
minimize	1
minimum	2
mining	7
miningnews	9
minor	1
minute	4
minutes	5

mirant	1	
mircosoft		1
mirror	3	
miserable		1
mislead	1	
miss	2	
missed	2	
missing	1	
missouri		1
misspelled		1
missss	1	
mitral	1	
mix	2	
mixture	1	
mm	1	
mmbtu	6	
mo	1	
moates	1	
mobil	1	
mobile	1	
mode	1	
modem	1	
moderate		2
moderates		2
moderator		4
modification		1
module	1	
modules	4	
moment	3	
moments	1	
monadic	1	
monday	15	
monday's		1
money	35	
mongolia		1
monies	1	
monitor	1	
montana	1	
month	17	
monthly	2	
months	10	
mood	1	
moore	39	
morality		1
morayt	1	
more	65	
morne	1	
morning	12	
morris	3	
mortgage		3
mossel	1	
most	31	
mostly	1	
motero	1	



motivating	1
mounted	1
mouse	5
move	8
moved	2
movement	2
moves	1
moviebuff	2
moving	5
mower	1
mp	1
mpkemyrxlpq	1
mr	10
mrs	8
ms	10
mscf	1
mst	1
much	25
multilanguage	1
multipart	1
multiple	7
murmur	1
murphy	1
muscle	2
music	1
musically	1
must	21
mustard	1
mutual	1
mw	3
mx	6
my	102
myers	1
myinput	4
myinputare	1
myself	1
myshoppingplace	4
mysiteinc	4
n	13
na	1
naked	1
name	22
names	7
nas	1
nation's	1
natives	1
natural	7
nature	2
nbi	1
ncaa	1
nd	4
neaarby	1
near	6
nearby	1

nearly	1
neat	1
nebulous	1
necessary	8
necessities	1
neck	1
need	54
needed	9
needs	9
negative	1
negotiating	3
negotiation	1
neighbor	1
neighboring	2
nepco	1
nero	1
net	35
net's	1
netherland	1
netherlands	2
netnoteinc	6
netpreneur	1
netsbestinfo	2
network	1
networks	6
netwww	1
neuweiler	2
never	7
new	66
newcomers	2
news	7
newsboy	2
newsletter	24
newsletters	4
next	27
neyeded	1
ngo	2
nguyen	3
ngx	1
nice	3
nickel	4
nicki	1
nickname	1
nicolay	1
niestrath	1
nigel	1
night	4
nightgear	1
nighttime	2
niles	3
nim	2
nine	1
no	52
noah	1

nodded	1
nom	8
nominated	4
nomination	4
nominations	1
nommensen	1
non	5
none	2
noon	1
norma	1
normal	8
normally	1
normet	2
north	12
northern	3
norton	3
nospam	1
nostalgia	1
not	126
note	9
noted	4
notes	1
nothing	5
notice	4
noticed	1
notiffiyved	1
notification	1
notify	2
notis	2
nov	5
novak	1
novel	1
novelties	1
november	3
now	29
nowbetterthis	2
nowthe	1
nox	2
nrg	1
nrw	1
ns	1
nt	1
num	1
number	17
numbers	9
numerous	1
o	5
o'neal	1
oak	1
oblibgat	1
obligation	2
obligationin	1
obligations	2
observations	2

obtain	4	
obtained		1
obviously		4
occasion		1
occur	1	
occurs	1	
ocd	1	
oceania	1	
oconan	2	
odin	2	
odlx	1	
oem	3	
of	566	
off	8	
offer	26	
offered	3	
offering		7
offers	2	
office	26	
officer	3	
offices	3	
official		1
officially		3
officials		1
offsite	2	
often	9	
oh	2	
oil	1	
oilshale		1
ok	4	
old	7	
olson	2	
omaha	1	
omission		1
on	271	
once	8	
ondarza	1	
one	67	
one's	1	
onerous	1	
ongoing	2	
online	20	
only	32	
ontacted		1
oo	6	
op	4	
open	7	
opening	4	
openpage		1
operate	1	
operation		2
operational		6
operations		41
operators		3

opinion	5
opportunities	7
opportunity	9
oppose	1
opposite	1
opposition	2
opt	2
optimistic	1
option	1
options	2
optionscontrol	1
or	166
orange	1
order	44
ordered	6
orders	1
ore	3
org	4
organisation	1
organization	6
organizational	1
organize	2
orgoto	1
orgtrade	1
oriental	1
original	3
originality	1
originally	1
origination	1
originator	2
orleantraders	1
orrick	1
osman	4
otc's	1
other	43
others	4
otherwise	1
ounces	1
our	119
ourselves	1
out	70
outback	1
outdated	1
outline	2
outlined	1
outlook	3
outpacing	1
outrageous	1
outside	3
outstanding	4
over	50
overall	2
overgaard	1
overnight	2

overpaying	1
oversee	3
overseer	1
overuse	1
overwhelm	1
owe	1
own	15
owned	5
owner	2
owners	2
ownership	2
owning	2
owns	1
oxidation	1
oxley	3
oxx	2
oxymoron	1
ozarka	1
p	24
paces	1
pacific	3
package	4
padron	1
page	23
pagemaker	2
pages	9
paid	5
paidtosurf	2
pain	2
painter	1
palaeo	1
pamela	2
panel	1
pangs	1
paper	3
papers	2
papua	1
par	2
paragraph	6
paragraphs	8
parallel	1
parents	1
part	9
participants	2
participate	4
participating	1
participation	1
particular	2
particularly	3
parties	4
partner	4
partners	4
partnership	1
parts	1

party	3	
paso	2	
pass	2	
passed	1	
passport		1
password		5
past	3	
path	2	
pathetic		1
pathos	1	
patricia		4
paul	2	
paulo	5	
pause	1	
pavluk	1	
pay	5	
payback	1	
payers	1	
paying	3	
payment	1	
payments		8
payne	2	
payroll	5	
pbem	1	
pc	5	
pcenergy		3
pcp	1	
pdx	1	
peace	4	
peaking	1	
peel	2	
peers	1	
penance	1	
pennsylvania		3
pentium	1	
people	38	
per	11	
perceived		1
percent	1	
percentage		2
perfect	3	
perform	1	
performance		7
performer		2
perhaps	3	
period	8	
persist	1	
persistence		2
persists		1
person	16	
personage		1
personal		12
personality		4
personally		1

personnel	7	
persons	1	
perspective	7	
perth	1	
pest	1	
pet	1	
peter	3	
petteway	1	
pg	7	
pgm	1	
ph	3	
phases	2	
phentermine	3	
philadelphia	1	
philip	1	
phillip	1	
phone	15	
phonetic	1	
photo	1	
photoshop	3	
php	3	
phrasemake	1	
phrases	3	
physical	6	
physicians	1	
pibrochs	1	
pick	3	
picture	4	
pictures	8	
piece	1	
pierre	1	
pike	1	
pilkington	1	
pillsburywinthrop	2	
pilocystic	1	
pilot	6	
pinion	1	
pinnacle	1	
pinnamaneni	4	
pipe	1	
pipeline	3	
pipes	2	
pitchers	1	
pitifully	1	
pl	1	
place	20	
placed	1	
placement	2	
places	1	
plain	4	
plan	17	
plans	2	
plant	2	
planted	1	



plants	2
platform	2
platitudes	1
platte	1
played	1
player	2
pleas	1
pleasant	1
please	84
pleased	3
pleasure	1
plentiful	1
plus	4
plushy	1
pm	37
po	1
point	15
points	3
policy	6
political	3
politically	1
politicians	1
pompey	1
poor	3
poors	1
pops	2
popular	2
portion	1
ports	1
position	7
positions	1
possesses	1
possibilities	1
possibility	4
possible	17
possibly	2
post	9
postal	1
posting	1
posts	1
potency	1
potential	8
pound	2
pounds	1
power	24
powered	3
powerful	7
powerquest	1
ppmfztdtet	1
practices	3
prager	1
pray	1
prbolem	1
pre	3

precedent	1
precious	1
precluded	1
preferences	2
preferred	2
prefix	1
premature	1
premiere	2
premium	3
premiums	2
preneur	2
prepared	2
preposition	1
presas	2
prescription	1
prescriptions	1
presence	3
present	2
presentation	1
presented	1
president	9
presidential	1
press	4
pressure	5
pressured	2
prestigious	1
presumably	1
presumed	1
pretty	4
prevatt	4
prevent	1
previous	9
previously	2
price	27
prices	8
pricing	4
pricked	1
pride	1
pricce	1
priice	1
priices	1
prilosec	1
primary	3
principal	3
principle	1
print	1
printable	2
printer	23
prior	8
priority	2
privacy	6
private	5
privileged	1
prize	1

pro	2
probably	7
problem	5
problematic	1
problems	5
procedures	3
proceed	2
proceeds	1
process	13
processed	2
processes	2
processing	8
processor	1
procrustes	1
procurement	2
produce	2
producer	1
producers	3
producing	1
product	36
production	8
products	23
professional	14
professionals	3
professor	1
profile	3
profit	6
profitable	1
profitbanners	4
profits	1
program	7
programs	14
progress	2
prohibited	1
project	18
projects	2
proliferation	3
prominent	2
promise	1
promised	1
promising	1
promote	2
promoted	1
promoting	2
promotion	1
promotional	2
prompt	1
properly	2
property	2
proposal	9
proposed	3
prospects	1
prosper	3
prostaff	1

protest	2
protesting	1
protocol	1
prove	2
proven	1
provide	21
provided	3
provider	3
providers	2
provides	2
providing	6
province	1
proxy	7
prozac	1
prriicegreat	1
ps	1
pst	1
psychotic	1
pting	1
pts	1
public	2
publicity	1
published	5
publishes	1
publishing	2
puc	3
pull	5
pulled	1
pulling	1
pulp	1
pun	1
purchase	11
purchased	1
purchases	3
purchasing	2
pure	1
purpose	6
purposefully	1
pursuing	1
pushed	1
pushes	1
pushing	1
put	12
putpeel	8
puts	1
q	5
quadrangular	1
qualification	3
qualified	1
qualities	1
quality	15
qualityproducts	1
quark	1
quarter	1

quasi	1	
queensland	2	
question	11	
questions	36	
quick	3	
quickens	1	
quickly	7	
quite	4	
quitting	1	
quote	1	
quoted	4	
quotes	3	
r	16	
rabey	1	
rac	1	
race	1	
rail	3	
railing	1	
raise	2	
raised	2	
raises	2	
raising	1	
ram	2	
ramupgradeable	1	
ran	2	
ranch	10	
randall	1	
randle	1	
randomly	1	
ranen	1	
range	2	
rankings	1	
ranks	2	
rapidly	1	
rare	1	
rat	2	
rate	33	
rated	3	
rates	7	
rather	6	
rating	2	
ratio	1	
ravi	6	
ray	4	
raymond	7	
rd	1	
re	30	
rea's	1	
reach	7	
reached	3	
reaching	1	
read	18	
reader	21	
reader's	2	

readers	2	
readers'mind		1
readies	1	
reading	1	
reado	1	
reads	2	
ready	5	
real	14	
realize	3	
really	7	
rear	1	
reason	6	
reasonable		2
reasons	1	
reassigned		1
rebecca	2	
rebel	2	
rebels	2	
recap	3	
receipt	6	
receipts		1
receivable		1
receive	12	
received		5
receives		4
receiving		5
recent	3	
recently		5
reception		1
recieved		2
recipient		2
reclaimers		1
recognition		1
recognizing		4
recommend		1
recommendation		1
recommendations		4
record	2	
recorded		1
recover	2	
recovery		2
recruiting		3
red	2	
redesign		2
redesigns		1
redhat	1	
reduce	1	
reduced	1	
reduces	2	
reduction		4
ref	2	
refer	2	
reference		2
references		1

referendum	6
referral	2
referred	2
refinances	2
reflect 1	
reflected	1
reflections	1
reflux 1	
refugee 3	
refusals	1
refuse 1	
regard 9	
regarding	2
regardless	4
regards 7	
regina 6	
region 6	
regional	11
regions 6	
registered	4
regretful	1
regulations	3
reins 1	
reiterate	1
rejoice 1	
related 2	
relates 1	
relating	2
relation	1
relations	3
relationship	6
relative	2
release 1	
released	4
releases	2
relegated	1
reliant 4	
reliantenergy	3
relieved	1
relieves	1
remain 1	
remainder	2
remaining	3
remember	13
remind 2	
reminder	1
remitted	1
removal 1	
remove 6	
removed 4	
removes 1	
removing	1
remunerate	1
renewable	2

rennie	1	
rental	1	
repeal	1	
repeatedly	2	
replace	2	
replay	2	
replies	3	
reply	5	
replying	1	
report	14	
reportedly	2	
reporting	10	
reports	1	
representatives	2	
republicans	2	
reputation	2	
request	14	
requesting	1	
require	3	
required	2	
requirement	1	
requirements	5	
requires	1	
requiring	1	
reread	1	
research	5	
resell	1	
reseller	1	
reservation	1	
reserve	2	
reserved	3	
residents	1	
residue	1	
resistance	1	
resolve	4	
resolved	1	
resort	2	
resource	5	
resourceful	1	
resources	23	
resourcestocks	1	
respect	4	
respectable	1	
respected	1	
respective	2	
respond	8	
response	4	
responses	8	
responsibilites	2	
responsibilities		7
responsibility	10	
responsible	4	
rest	5	
restate	1	



restless	1
restore	1
restrictions	1
result	2
resulted	2
results	6
resume	3
retail	4
retains	3
retarding	1
retentive	1
retire	3
retired	2
retirement	1
return	8
returned	2
rev	4
revenue	2
reversed	2
review	12
reviewed	4
reviewing	1
reviews	6
revised	2
revolution	2
revolutionary	1
rewarding	2
rewrite	2
rge	1
rhine	1
rhinopez	1
rich	1
richard	2
riches	1
rick	11
rid	1
ride	2
ridiculous	1
riding	1
riedel	1
right	17
rightly	1
rights	4
rise	1
rising	1
risk	49
rita	3
river	2
riverdeep	1
rizzi	2
rm	1
rmation	1
road	2
roared	1

rob	2	
rob's	1	
robert	7	
roberts	9	
rock	2	
rodgers	1	
rodney	1	
rodriguez		2
rogram	1	
rohan	1	
roibot	3	
role	18	
roll	1	
roman	4	
romantic		1
romeo	1	
roof	2	
rook	1	
room	3	
rosalie	1	
rosenfield		6
ross	4	
rossman	12	
round	1	
routes	1	
roving	6	
roxio	1	
rsa	1	
rto	1	
rtol	1	
ruanda	1	
rub	1	
rudl	2	
ruin	1	
rule	2	
rules	1	
ruling	2	
run	2	
runkel	1	
running	7	
rush	1	
rushed	1	
russell	1	
ruzika	1	
rvsq	1	
rw	1	
rx	1	
s	40	
sa	4	
saave	7	
safe	5	
safely	2	
safety	2	
said	3	

salaried	1
sale	10
sales	43
sally	34
salomon	2
salt	1
sam	3
samarium	1
same	12
same'setbacks'	1
samer	5
sample	6
sampling	1
samuel	1
san	4
sand	1
sandton	2
sang	1
sanibel	1
sankoh	3
sap	16
sap's	1
sapphire	1
sat	1
satisfied	4
saturday	1
save	8
saving	2
savings	1
savvy	1
saw	1
say	6
saying	4
says	3
sc	5
scams	1
scenario	1
schafer	1
schaffer	1
schedule	8
scheduled	3
scheduling	4
schmidt	4
school	2
schott	1
schumack	3
science	1
scientific	1
scope	2
score	1
scott	2
scotty	1
scout	1
scratch	1

screamed	1	
screaming	1	
screen	1	
screening	1	
screwball	1	
script	3	
scroll	3	
scuttle	1	
sds	1	
search	4	
searching	2	
season	1	
second	4	
secret	6	
secret's	2	
secrets	5	
section	4	
sector	3	
secure	3	
secured	1	
securities	5	
securitization	3	
security	10	
see	34	
seeded	1	
seeing	1	
seem	3	
seemed	2	
seems	4	
seen	4	
seize	2	
selected	1	
selection	4	
self	4	
sell	8	
sellens	1	
selling	11	
sellinternetaccess	5	
sells	2	
semester	1	
sempra	1	
sempratradng	1	
sen	1	
senate	2	
senator	5	
send	23	
sending	1	
sengupta	1	
senior	11	
sense	3	
sensitive	2	
sent	16	
sentence	2	
sentences	4	

sentiment	1
separate	7
sera	2
sergeev	4
sergeev's	1
serial	2
serious	1
serve	6
served	1
server	5
servers	2
service	48
services	16
session	1
sessions	2
set	15
settanni	1
setting	3
settingt	1
settled	3
settlement	2
settlements	2
setup	5
seven	5
seventhpower	4
several	17
severe	1
seward	1
sex	1
sexual	2
sezgen	4
shakespeare	3
shall	9
shanbhogue	5
shandong	1
share	8
shared	4
shares	1
sharing	3
sharpens	1
sharply	1
she	18
sheila	4
shenkman	1
sherlyn	3
sherri	2
shift	2
shiip	2
shipped	1
shipping	1
shirley	18
shoot	1
shop	3
shopping	5

short	8	
shorter	1	
shortly	1	
shot	1	
should	27	
shoulder		1
show	7	
showcase		20
showcases		6
shown	2	
shows	1	
shults	1	
shut	1	
shutdown		1
shy	1	
siberia	1	
sibilant		1
sick	1	
side	2	
sides	1	
sierra	5	
sight	1	
sign	4	
signature		1
signed	4	
significance		1
significant		4
signing	1	
signups	1	
sillily	1	
silver	1	
similes	1	
simple	10	
simplicity		4
simply	5	
since	13	
sincerely		4
singing	1	
single	4	
sink	1	
sir	2	
sit	1	
sitara	3	
site	60	
sites	31	
situation		4
six	3	
size	5	
skilling		5
skilling's		2
skills	2	
skin	1	
skinner	3	
slash	1	

slaver	1	
sleep	2	
slgavjmoqq	1	
slightly	1	
slipped	1	
slots	1	
slotting	1	
slow	3	
slower	1	
slowly	1	
small	3	
smaller	6	
smaller'	1	
smith	7	
smoker	1	
smoking	7	
sneak	2	
snhezkjzhisbpjhgx	1	
snooping	1	
snowboard	1	
so	60	
soap	2	
socal	4	
softtware	2	
software	13	
softwares	1	
sokolov	4	
sold	2	
solely	1	
solicit	1	
solicitation	2	
solid	1	
solmonson	1	
solution	2	
solved	1	
soma	1	
some	68	
somehow	1	
someone	11	
something	8	
sometime	2	
sometimes	1	
somewhat	1	
son	8	
son's	2	
songs	1	
soon	9	
sorry	2	
sos	1	
sotware	1	
sound	3	
soundmax	1	
sounds	1	
source	5	

sources	7	
south	15	
southern		1
southernenergy		2
southwest		1
sp	1	
space	7	
spam	7	
spare	1	
spark	2	
speak	8	
speaking		1
special	14	
specials		4
specific		7
specifically		4
speed	2	
speeding		1
speeds	1	
spell	2	
spelling		3
spend	8	
spending		1
spent	4	
spigot	1	
spirit	2	
split	1	
splitting		1
spoke	2	
spoken	2	
sponsor	4	
sponsored		1
sponsorship		9
sportsbetting		2
spot	5	
spotlight		1
spp	1	
spread	1	
spreads	1	
spring	1	
sql	1	
squeeze	1	
squill	1	
sr	1	
srs	1	
ss	1	
ssb	1	
ssmb	1	
st	3	
stability		3
stable	1	
stacey	4	
stacy	1	
stad	1	



staff	5	
stage	1	
stage'in		1
stake	2	
stalling		1
stand	2	
standard		3
standing		6
stands	1	
star	2	
stars	1	
start	9	
startbgmlmezzine	2	
started	3	
starting		1
state	30	
stated	2	
statement		1
statements		1
states	5	
station	2	
stats	2	
status	1	
stay	2	
stayed	1	
steadily		1
steak	1	
stearns	2	
steeves	2	
stella	6	
stelly	1	
stentofon		2
step	2	
stephanie		1
steps	1	
stern	1	
steve	1	
steve's	1	
stick	2	
stil	2	
still	12	
stilled	1	
stinson	8	
stock	5	
stocker	1	
stockhouse		1
stomaching		1
stood	1	
stop	15	
stopping		3
store	2	
stores	6	
stories	4	
story	17	

stove	1
straight	4
strain	1
strangas	1
strange	2
strangulate	1
stratagem	1
strategic	3
strategies	5
strategist	2
strategy	2
stratton	1
streams	2
street	1
streets	1
strength	1
strengthened	1
strengthening	1
strengths	2
stress	5
stretch	3
strictly	1
strides	2
striking	1
strong	2
stronger	2
stroock	1
struck	2
structure	5
students	4
studio	2
stuff	4
stukm	1
stupid	1
stupidity	1
style	1
styles	1
subconsciously	1
subject	53
submissions	4
submit	10
submitted	1
subscribe	7
subscribed	4
subscribers	1
subscribing	1
subscription	10
subscriptions	1
subsequently	1
substantial	2
succeed	3
succeeded	1
succeeding	1
succeeds	1

success	25	
successes		3
successful		17
successfully		1
such	9	
sue	3	
sugar	3	
suggest	2	
suggested		1
suggestions		5
suite	5	
sum	3	
summary	5	
summer	5	
summit	1	
sunrise	1	
sup	1	
super	5	
superb	1	
superman		1
supervisor		4
supervisors		5
supplier		2
suppliers		6
supply	4	
support	16	
supported		1
supporting		6
supportive		1
supports		3
supposedly		1
suppressant		1
suprervisagra		1
sure	11	
surf	5	
surfing	1	
surfola	4	
surged	1	
surgery	1	
surrounding		1
survey	3	
susan	9	
suspicion		1
sustainability		1
suzms	1	
swap	2	
sweet	3	
swift	2	
swings	1	
swiss	2	
switch	1	
switchman		1
sydney	2	
sylg	1	

symaantec	1
syndicate	1
system	13
systems	6
systemslogical	1
t	7
table	2
tablet	1
tablets	1
tactically	1
tag	1
take	19
takegreat	1
taken	2
takeover	2
takes	7
taking	4
takriti	5
talent	2
talk	7
talked	1
talking	2
talks	3
tall	1
tamarchenko	4
tang	5
tangible	1
tantalum	1
tanya	4
target	9
targeted	11
targeting	1
tarriif	2
tarrin	1
task	2
taught	1
tax	1
taxation	1
taylor	3
tea	2
teach	1
teacher	1
teachers	1
team	19
tear	1
tears	1
technical	3
technicalities	1
techniques	5
technology	3
teco	2
teddy	2
teddy's	1
tejones	2

tel	3	
tele	1	
telephone	3	
teleseminar	2	
television	1	
tell	13	
telling	1	
tells	1	
tempted	1	
tenacity	1	
tenderer	1	
tendererlycopodium	1	1
teosrest	1	
terence	1	
term	8	
terminate	1	
terms	5	
terrible	1	
terrific	1	
terrorist	1	
terry	1	
test	1	
testimonials	2	
texaco	6	
texas	1	
text	15	
texts	2	
textual	1	
texture	1	
textures	1	
th	14	
than	32	
thank	9	
thanking	3	
thanks	34	
that	222	
that's	5	
the	1247	
theinvestment	1	
their	40	
them	56	
themselves	4	
then	28	
theqgrefor	1	
there	54	
there's	2	
thereafter	2	
therefore	7	
thereof	1	
these	50	
they	60	
they'll	2	
they've	1	
thickness	1	

thimble	1	
thing	13	
things	8	
think	11	
thinking		1
third	3	
thirteen		1
thirty	3	
this	262	
thompson		1
thorns	1	
thoroughly		1
those	15	
though	6	
thought	2	
thoughts		2
thousainds		1
thousand		2
thousands		3
threat	4	
threats	2	
three	17	
thrid	1	
thronged		1
through	18	
throughout		4
throw	1	
thu	8	
thu's	2	
thunder	1	
thuraisingham		6
thursday		10
thursday's		1
thus	1	
ticket	2	
tidbits	1	
till	1	
tilts	1	
time	44	
timekeeping		2
timely	2	
times	5	
timesheets		1
timing	1	
timotheus		1
timshometownstories		3
tin	5	
tinned	1	
tips	4	
tire	1	
tired	2	
tires	3	
tithable		1
title	4	

titles	3	
tlapek	5	
tm	1	
to	963	
to'blow	1	
tobacco	2	
today	27	
today's	6	
todd	1	
together		7
toilet	1	
tokyo	1	
told	6	
toll	3	
tommy	1	
tomorrow		5
tonai	1	
tone	1	
tonne	1	
too	12	
took	3	
tool	2	
toolbar	7	
top	9	
topic	2	
topics	1	
toronto	1	
tortoises		1
total	8	
touched	1	
toward	1	
towards	4	
towel	1	
towels	1	
tower	2	
town	4	
toy	2	
tr	2	
track	3	
tracked	1	
tracks	2	
trade	25	
trademarked		2
trader	4	
traders	1	
trading	29	
tradition		1
traditional		2
traffic	10	
trafficmultipliers		1
train	7	
training		9
tramadol		2
trans	1	

transact	1
transaction	5
transalta	1
transcanada	2
transco	2
transfer	12
transferred	3
transferring	2
transistion	5
transition	4
transmission	10
transmissions	1
transport	3
transportation	2
transporting	1
trash	1
travel	3
traveling	1
travelling	1
treasonous	1
treasurer	1
treat	1
treatment	1
treats	1
tree	2
trevino	4
trial	3
trials	1
triassic	1
tricky	1
tried	5
trigger	2
trina	1
trip	2
triple	1
trips	1
trisha	1
trista	2
troubled	1
true	9
truly	1
trunk	2
trust	8
trusted	2
truth	2
try	10
trying	3
tuesday	4
tuned	1
tuneful	1
tungsten	1
tuning	1
turk	3
turn	3



turned	1	
turner	3	
tw	1	
twain	1	
twenty	4	
twice	2	
two	24	
tx	3	
txu	2	
txuelectric	1	
txuenergy	3	
tyone	1	
type	12	
u	3	
uafn	1	
ugh	1	
uk	4	
ult	2	
ultimate	1	
un	1	
unable	3	
unattainable	2	
unavoidable	1	
unbelievably	1	
unblock	1	
unblocking	4	
unclaimed	1	
unclear	1	
uncollected	1	
uncomfortable	1	
uncover	1	
under	23	
undercollected	1	
undercollection	4	
underground	1	
understand	7	
understanding	9	
underwrite	1	
undeveloped	1	
unify	3	
union	2	
unions	2	
unique	2	
unit	7	
united	5	
units	4	
universal	1	
university	1	
unknown	6	
unless	5	
unlike	1	
unlimited	4	
unmanly	1	
unnecessarily	2	

unnecessary	1
unocal	1
unprofessional	1
unrealistic	2
unsubscribe	16
unsubscribed	1
until	17
untouchable	1
unwarranted	1
up	47
upcoming	1
update	13
updated	1
upgradeable	3
upgraded	1
upgrades	2
upload	1
uploaded	1
upon	9
upping	1
upward	1
ur	1
uranium	1
urg	2
urgency	1
urgent	7
urgently	1
url	3
us	50
usage	4
usavity	1
usb	1
usd	2
use	43
used	11
useful	4
user	8
userconf	1
users	6
users'group	1
uses	1
using	18
utilities	19
utilities'debts	1
utilities'transmission	2
utility	8
uuz	1
uvd	1
uwe	4
uz	1
v	7
vacation	2
val	3
valeria	1

valid	4	
validate		1
valium	3	
valley	3	
valuable		9
valuables		2
value	11	
valued	1	
van	3	
vanadium		1
vance	2	
var	1	
variety	1	
vary	1	
vasant	5	
vastar	8	
vaughn	3	
vault	1	
ve	2	
vein	1	
vendor	2	
vendors	1	
venture	5	
verbry	1	
verification		2
verify	1	
version	9	
versus	2	
very	31	
verypowerful		1
veteran	1	
vi	2	
via	13	
viag	1	
viagra	5	
vic	2	
vice	9	
vicodin	2	
vicqodin		1
victor	2	
view	11	
viewer	1	
villarreal		1
vince	17	
vincent	5	
vintage	2	
virtues	1	
vision	1	
visit	30	
visited	1	
visitor	3	
visitors		2
visits	1	
visual	1	

visually	1
voice	6
voices	1
volatility	4
volume	9
volumes	1
voluntary	1
vote	7
voted	1
voting	2
vp	1
vs	2
vzxoaxqhg	1
w	12
wa	2
wacked	1
waggon	1
wait	2
walked	1
wall	6
wallis	1
wallow	1
walpole	1
walsh	2
walton	2
want	36
wanted	6
wanting	4
wants	2
war	2
ward's	1
wardsgiftshop	1
warrant	1
warrants	2
warranty	1
was	68
wash	1
washing	4
washington	1
waste	1
watched	1
watchfully	1
water	2
watson	2
way	10
ways	10
wbom	1
we	164
we'd	1
we'll	11
we're	1
we've	5
weakness	4
wealth	2

weather	2	
web	23	
webmail	1	
webmaster's	1	
webpage	4	
website	28	
websites	2	
weddeliverparties		1
wednesday	6	
weed	1	
week	38	
weekend	3	
weekly	4	
weeks	6	
weeks's	2	
weep	1	
weight	2	
weightwheezy	1	
weissman	5	
welch	1	
welcome	2	
well	25	
went	3	
were	26	
west	5	
western	6	
westerngas	1	
westward	1	
wfxu	1	
whalley	3	
what	65	
what's	3	
whatever	4	
whats	1	
whatsoever	3	
whelan	1	
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  $\text{DF}$ ; 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")

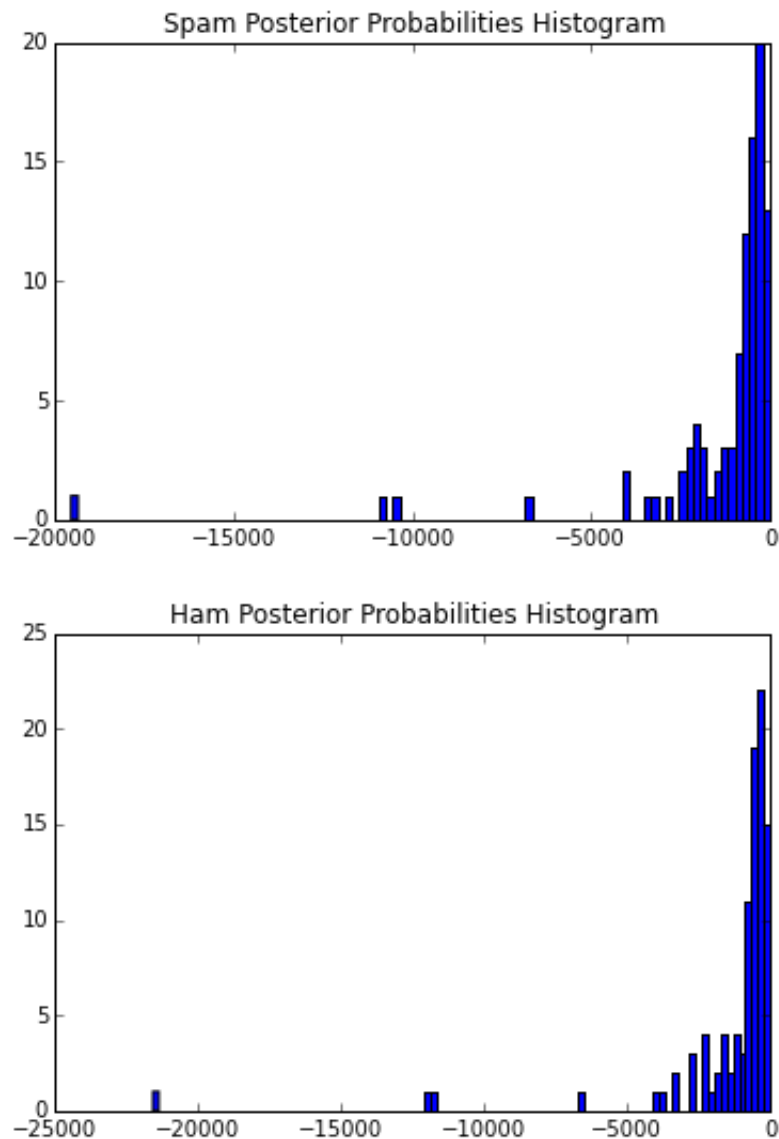
```

```
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")

```

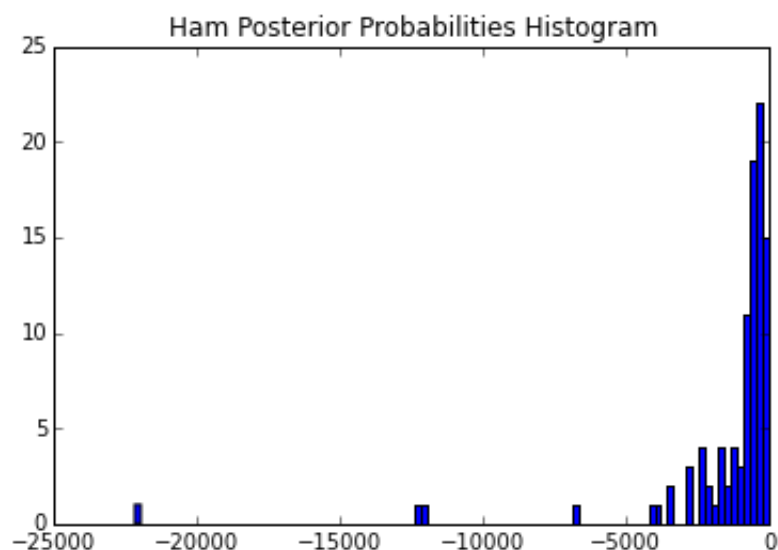
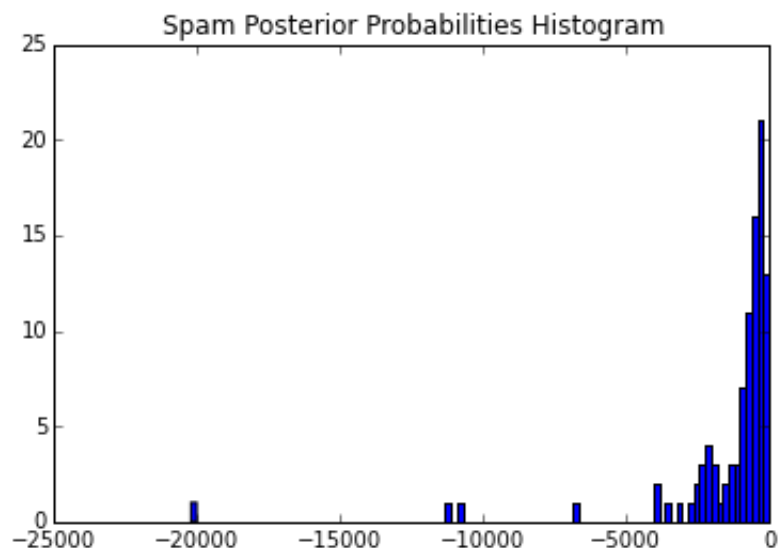


```
plt.show()
```

```
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 f
rom 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, Emptier 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, Emptier 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()

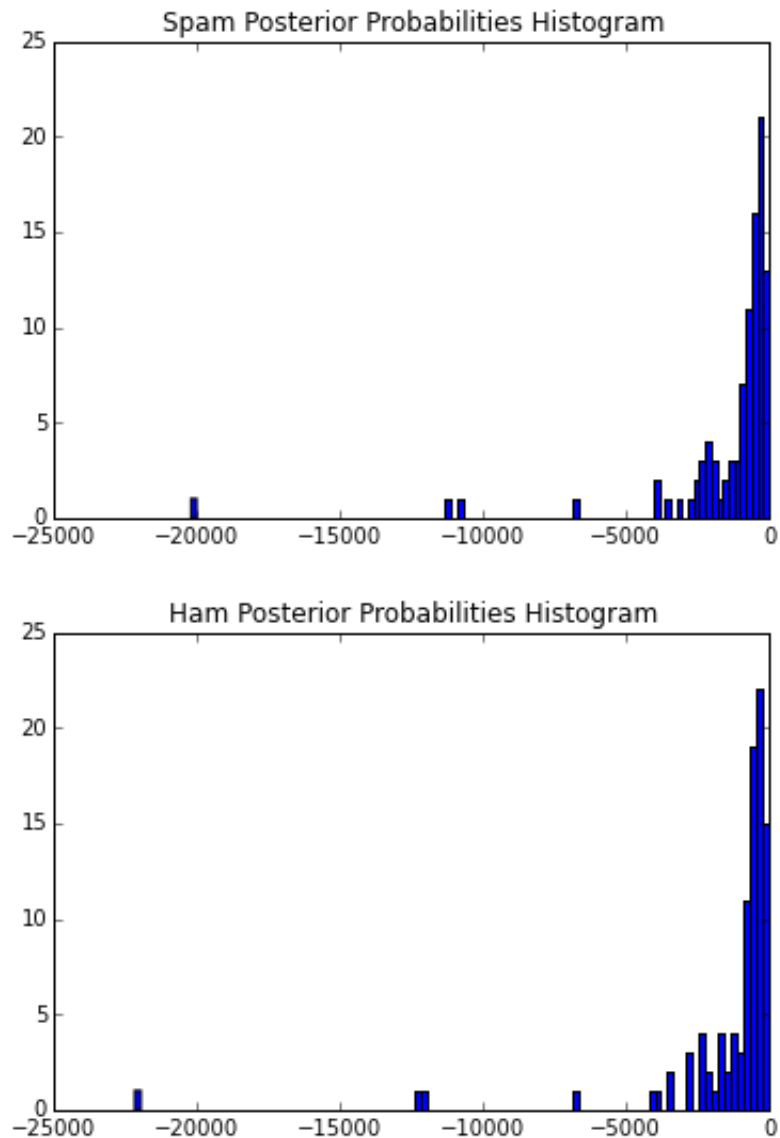
plt.hist(hp, bins=100)
plt.title("Ham Posterior Probabilities Histogram")

```

```
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',
'in', 'room', '560', 'and', 'times', 'are', 'listed', 'below', 'al
so', 'attached', 'is', 'a', 'description', 'of', 'the', 'modules',
'all', 'are', 'designed', 'for', 'supervisors', 'only', 'with', 't
he', 'exception', 'being', 'communicating', 'effectively', 'this',
'is', 'open', 'to', 'any', 'employee', 'as', 'a', 'benefit', 'in',
'attending', 'the', 'pilot', 'i', 'will', 'pick', 'up', 'the', 'co
st', 'so', 'there', 'will', 'be', 'no', 'charge', 'back', 'for',

```



'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', 'vincen', 't', 'tang', 'eb', '1934', 'ravi', 'thuraisingham', 'eb', '1932', 'zimin', 'lu', 'eb', '1942', 'if', 'you', 'have', 'any', 'question', 's', 'or', 'need', 'any', 'assistance', 'please', 'contact', 'me', 'kevin', 'or', 'sam', 'thanks', 'and', 'have', 'a', 'great', 'da', 'y', 'shirley', '3', '5290']

['re', 'issue', 'fyi', 'see', 'note', 'below', 'already', 'done', 'stella', 'forwarded', 'by', 'stella', 'l', 'morris', 'hou', 'ec', 't', 'on', '12', '14', '99', '10', '18', 'am', 'from', 'sherlyn', 'schumack', 'on', '12', '14', '99', '10', '06', 'am', 'to', 'stell', 'a', 'l', 'morris', 'hou', 'ect', 'ect', 'cc', 'howard', 'b', 'cam', 'p', 'hou', 'ect', 'ect', 'subject', 're', 'issue', 'stella', 'thi', 's', 'has', 'already', 'been', 'taken', 'care', 'of', 'you', 'did', 'this', 'for', 'me', 'yesterday', 'thanks', 'howard', 'b', 'camp', '12', '14', '99', '09', '10', 'am', 'to', 'stella', 'l', 'morris', 'hou', 'ect', 'ect', 'cc', 'sherlyn', 'schumack', 'hou', 'ect', 'e', 'ct', 'howard', 'b', 'camp', 'hou', 'ect', 'ect', 'stacey', 'neuwei', 'ler', 'hou', 'ect', 'ect', 'daren', 'j', 'farmer', 'hou', 'ect', 'ect', 'subject', 'issue', 'stella', 'can', 'you', 'work', 'with', 'stacey', 'or', 'daren', 'to', 'resolve', 'hc', 'forwarded', 'by', 'howard', 'b', 'camp', 'hou', 'ect', 'on', '12', '14', '99', '09', '08', 'am', 'from', 'sherlyn', 'schumack', '12', '13', '99', '01', '14', 'pm', 'to', 'howard', 'b', 'camp', 'hou', 'ect', 'ect', 'c', 'c', 'subject', 'issue', 'i', 'have', 'to', 'create', 'accounting', 'arrangement', 'for', 'purchase', 'from', 'unocal', 'energy', 'a', 't', 'meter', '986782', 'deal', 'not', 'tracked', 'for', '5', '99', 'volume', 'on', 'deal', '114427', 'expired', '4', '99']

['enrononline', 'desk', 'to', 'desk', 'id', 'and', 'password', 'b', 'ill', 'the', 'epmi', 'st', 'wbom', 'book', 'has', 'been', 'set', 'up', 'as', 'an', 'internal', 'counterparty', 'for', 'desk', 'to', 'desk', 'trading', 'on', 'enrononline', 'the', 'following', 'use', 'r', 'id', 'and', 'password', 'will', 'give', 'you', 'access', 't', 'o', 'live', 'prices', 'on', 'the', 'web', 'site', 'http', 'www', 'enrononline', 'com', 'user', 'id', 'adm', '74949', 'password', 'w', 'elcome', 'note', 'these', 'are', 'case', 'sensitive', 'please', 'k', 'eep', 'your', 'user', 'id', 'and', 'password', 'secure', 'as', 'th', 'is', 'allows', 'you', 'to', 'transact', 'on', 'enrononline', 'cont', 'act', 'the', 'helpdesk', 'at', 'x', '34357', 'if', 'you', 'have', 'any', 'questions', 'or', 'problems', 'gaining', 'access', 'with', 'this', 'id', 'thanks', 'stephanie', 'x', '33465']

['spend', 'too', 'much', 'on', 'your', 'phone', 'bill', '25711', 'crystal', 'clear', 'connection', 'with', 'unlimited', 'long', 'di', 'stance', 'usage', 'for', 'one', 'low', 'flat', 'rate', 'now', 'tr', 'y', 'it', 'for', 'free', 'see', 'for', 'yourself', "we'll", 'activ', 'ate', 'your', 'flat', 'rate', 'unlimited', 'long', 'distance', 'se', 'rvice', 'for', '1', 'week', 'free', 'to', 'prove', 'that', 'the', 'quality', 'of', 'service', 'is', 'what', 'you', 'expect', 'call', 'now', 'operators', 'standing', 'by', 'to', 'activate', 'your', 's', 'ervice', 'toll', 'free', '877', '529', '7358', 'monday', 'throug']

h', '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']

['NA', 'h', 'ello', 'dea', '54', 'r', 'home', 'owner', 'we', 'have', 'beetcn', 'notiffiyved', 'that', 'your', 'morayt', 'goage', 'r', 'ate', 'is', 'fixed', 'at', 'a', 'verbry', 'h', 'igh', 'in', 'teosrest', 'rate', 'theqgrefor', '5', 'e', 'yjoou', 'are', 'currently', 'overpaying', 'which', 'suzms', 'up', 'to', 'thousainds', 'of', 'dol', 'lagars', 'annuallouy', 'luo', '5', 'ckily', 'fe\_s', 'in', 'tx', '3', 'hje', 'u', 's', '3', 'r', '3', '39', 'so', 'hurry', 'beca', 'use', 'the', 'rat', 'e', 'forp', '8', 'ecarmst', 'is', 'no', '9', 't', 'looking', 'good', 'there', 'is', 'no', 'obligat', 'ion', 'and', 'it's', 'frgee', 'loczk', 'on', 'the', '3', '39', 'evelon', 'with', 'bazzd', 'cre', 'dcoit', 'click', 'h', 'ere', 'now', 'fooxr', 'dextails', 'r', 'emove', 'he', 'r', 'e']

['christmas', 'baskets', 'the', 'christmas', 'baskets', 'have', 'been', 'ordered', 'we', 'have', 'ordered', 'several', 'baskets', 'individual', 'earth', 'sat', 'freeze', 'notis', 'smith', 'barney', 'group', 'baskets', 'rodney', 'keys', 'matt', 'rodgers', 'charlie', 'notis', 'jon', 'davis', 'move', 'team', 'phillip', 'randle', 'chris', 'hyde', 'harvey', 'freese', 'facilities', 'iain', 'russell', 'darren', 'prager', 'telephone', 'services', 'mary', 'martinez', 'robert', 'knights', 'dept', 'trina', 'williams', 'daniel', 'hornbuckle', 'todd', 'butler', 'pamela', 'ford', 'ozarka', 'maryam', 'golnaraghi', 'special', 'baskets', 'greg', 'whalley', 'richard', 'weeks', 'any', 'questions', 'please', 'contact', 'kevin', 'more', 'other', 'request', 'contact', 'kevin', 'moore', 'price', 'information', 'contact', 'kevin', 'moore', 'please', 'also', 'if', 'you', 'need', 'any', 'assistance', 'with', 'your', 'christmas', 'cards', 'let', 'me', 'know', 'thanks', 'kevin', 'moore']

['meter', '7268', 'nov', 'allocation', 'fyi', 'forwarded', 'by', 'lauri', 'a', 'allen', 'hou', 'ect', 'on', '12', '14', '99', '12', '17', 'pm', 'kimberly', 'vaughn', '12', '10', '99', '02', '54', 'pm', 'to', 'lauri', 'a', 'allen', 'hou', 'ect', 'ect', 'cc', 'mary', 'm', 'smith', 'hou', 'ect', 'ect', 'subject', 'meter', '7268', 'nov', 'allocation', 'lauri', 'i', 'have', 'put', 'this', 'on', 'strangas', 'gas', 'until', 'i', 'can', 'get', 'a', 'contract', 'from', 'daren', 'forwarded', 'by', 'kimberly', 'vaughn', 'hou', 'ect', 'on', '12', '10', '99', '01', '52', 'pm', 'lauri', 'a', 'allen', '12', '09', '99', '01', '20', 'pm', 'to', 'kimberly', 'vaughn', 'hou', 'ect', 'ect', 'anita', 'luong', 'hou', 'ect', 'ect', 'cc', 'howard', 'b', 'camp', 'hou', 'ect', 'ect', 'mary', 'm', 'smith', 'hou', 'ect', 'ect', 'subject', 'meter', '7268', 'nov', 'allocation', 'kim', 'anita', 'a', 'volume', 'of', '7247', 'mm', 'shows', 'to', 'have', 'been', 'allocated', 'to', 'the', 'reliant', '2011', 'contract', 'for', 'november', 'there', 'was', 'no', 'nominaton', 'for', 'reliant', 'at', 'this', 'point', 'in', 'november', 'and', 'therefore', 'there', 'should', 'be', 'no', 'volume', 'alloca

ted', 'to', 'their', 'contract', 'please', 'make', 'sure', 'thes  
e', 'volumes', 'are', 'moved', 'off', 'the', 'reliant', 'contrac  
t', 'prior', 'to', 'november', 'close', 'thanks']

['transportation', 'to', 'resort', 'please', 'be', 'informed',  
'a', 'mini', 'bus', 'has', 'been', 'reserved', 'for', 'your', 'con  
venience', 'in', 'transporting', 'you', 'to', 'the', 'sanibel', 'h  
arbour', 'resort', 'from', 'the', 'airport', 'on', 'wednesday', 'a  
fternoon', 'upon', 'arrival', 'at', 'the', 'fort', 'myers', 'airpo  
rt', 'you', 'will', 'be', 'greeted', 'by', 'pts', 'transportatio  
n', 'services', 'i', 'have', 'submitted', "steve's", 'name', 'as',  
'a', 'point', 'of', 'contact', 'have', 'a', 'safe', 'and', 'pleasa  
nt', 'flight', 'adr']

['epmi', 'files', 'protest', 'of', 'entergy', 'transco', 'attache  
d', 'is', 'our', 'filing', 'made', 'yesterday', 'protesting', "ent  
ergy's", 'proposed', 'transco', 'rate', 'issues', 'are', 'prematur  
e', 'until', 'entergy', 'has', 'filed', 'to', 'join', 'spp', 'no',  
'support', 'for', 'its', 'proposed', 'innovative', 'rates', 'for',  
'example', 'i', 'entergy', 'would', 'get', '5', 'of', 'a', 'custom  
er', 'funded', 'transmission', 'project', 'as', 'a', 'developmen  
t', 'fee', 'and', 'ii', 'extra', '300', 'basis', 'points', 'for',  
'certain', 'projects', 'and', 'exact', 'recovery', 'mechanism', 'r  
equest', 'that', 'commission', 'require', 'grandfathered', 'contra  
cts', 'to', 'be', 'addressed', 'express', 'concern', 'of', "enterg  
y's", 'request', 'to', 'continue', 'the', 'problematic', 'source',  
'and', 'sink', 'limitations', 'forwarded', 'by', 'christi', 'l',  
'nicolay', 'hou', 'ect', 'on', '02', '08', '2001', '03', '44', 'p  
m', 'andrea', 'settanni', 'on', '02', '08', '2001', '03', '38', '2  
6', 'pm', 'to', 'cc', 'subject', 'entergy', 'rto', 'protest', 'rto  
l', '75', '01', 'wpd', 'entergyr', 'wpd']

['discounted', 'mortgage', 'broker', '512517', 'moates', 'are',  
'at', 'an', 'all', 'tyone', 'with', 'any', 'crest', 'and', 'most',  
'competitive', 'rates', 'simple', 'takes', 'under', '1', 'minute',  
'try', 'now', '512517']

['miningnews', 'net', 'newsletter', 'thursday', 'december', '18',  
'2003', 'thursday', 'december', '18', '2003', 'miningnews', 'net',  
'to', 'allow', 'you', 'to', 'read', 'the', 'stories', 'below', 'w  
e', 'have', 'arranged', 'a', 'complimentary', 'one', 'month', 'sub  
scription', 'for', 'you', 'to', 'accept', 'click', 'here', 'to',  
'visit', 'our', 'extended', 'service', 'at', 'www', 'miningnews',  
'net', 'alternatively', 'just', 'click', 'any', 'of', 'the', 'stor  
ies', 'below', 'should', 'you', 'wish', 'to', 'discontinue', 'thi  
s', 'service', 'you', 'may', 'click', 'here', 'to', 'cancel', 'you  
r', 'subscription', 'or', 'email', 'subscriptions', 'miningnews',  
'net', 'have', 'some', 'news', 'of', 'your', 'own', 'send', 'you  
r', 'press', 'releases', 'product', 'news', 'or', 'conference', 'd  
etails', 'to', 'submissions', 'miningnews', 'net', 'de', 'crespign  
y', 'back', 'in', 'the', 'action', 'at', 'buka', 'robert', 'champi  
on', 'de', 'crespigny', 'has', 're', 'emerged', 'in', 'the', 'reso  
urces', 'sector', 'atop', 'queensland', 'explorer', 'and', 'potent  
ial', 'copper', 'producer', 'buka', 'minerals', 'sending', 'share  
s', 'in', 'the', 'company', 'sharply', 'higher', '18', 'december',  
'2003', 'full', 'story', 'danielle', 'looks', 'good', 'for', 'stra  
tegic', 'minerals', 'strategic', 'mineral', 'has', 'returned', 'mu  
ltiple', 'high', 'grade', 'assays', 'from', 'rock', 'chip', 'sampl



ing', 'of', 'the', 'danielle', 'vein', 'at', 'its', 'woolgar', 'gold', 'project', 'in', 'north', 'queensland', 'including', 'one', 'assay', 'grading', '1953', '2', 'gpt', '18', 'december', '2003', 'full', 'story', 'ivernia', 'west', 'upgrades', 'wa', 'lead', 'resource', 'toronto', 'listed', 'ivernia', 'west', 'has', 'upgraded', 'its', 'resource', 'and', 'reserve', 'estimate', 'for', 'the', 'cano', 'deposit', 'at', 'the', 'company's', '60', 'owned', 'magellann', 'lead', 'project', 'in', 'western', 'australia', '18', 'december', '2003', 'full', 'story', 'highlands', 'raises', '19', 'million', 'for', 'kainantu', 'highlands', 'pacific', 'has', 'banked', 'another', '18', '7', 'million', 'for', 'the', 'development', 'of', 'its', 'high', 'grade', 'kainantu', 'gold', 'project', 'in', 'papua', 'new', 'guinea', 'following', 'a', 'placement', 'to', 'domestic', 'and', 'international', 'institutions', '18', 'december', '2003', 'full', 'story', 'anz', 'boosts', 'gold', 'outlook', 'continued', 'weakness', 'in', 'the', 'us', 'dollar', 'has', 'seen', 'anz', 'bank's', 'natural', 'resources', 'group', 'increase', 'its', 'forecasts', 'for', 'the', 'gold', 'price', 'with', 'industry', 'analyst', 'peter', 'windred', 'saying', 'the', 'us', '420', 'barrier', 'could', 'come', 'under', 'serious', 'pressure', '18', 'december', '2003', 'full', 'story', 'chile', 'lifts', '2004', 'copper', 'forecasts', 'with', 'copper', 'pushing', 'through', 'the', 'us', '1', 'per', 'pound', 'barrier', 'for', 'the', 'first', 'time', 'in', 'six', 'and', 'a', 'half', 'years', 'earlier', 'this', 'week', 'chile's', 'government', 'copper', 'commission', 'cochilco', 'has', 'lifted', 'its', 'average', '2004', 'copper', 'forecast', 'to', 'a', 'range', 'of', 'us', '92', '96', 'c', 'a', 'pound', '18', 'december', '2003', 'full', 'story', 'nickel', 'pushes', 'through', 'us', '15', '000', 't', 'nickel', 'has', 'surged', 'to', 'a', 'new', '14', 'year', 'high', 'on', 'the', 'london', 'metal', 'exchange', 'with', 'the', 'three', 'month', 'delivery', 'price', 'peaking', 'at', 'us', '15', '150', 'a', 'tonne', 'before', 'profit', 'taking', 'pushed', 'it', 'back', 'to', 'us', '14', '600', 'at', 'the', 'end', 'of', 'kerb', 'trade', '18', 'december', '2003', 'full', 'story', 'michelago', 'clinches', 'china', 'deal', 'michelago', 'has', 'further', 'cemented', 'its', 'position', 'in', 'china's', 'expanding', 'gold', 'industry', 'after', 'upping', 'the', 'stake', 'it', 'will', 'hold', 'in', 'a', 'processing', 'plant', 'in', 'shandong', 'province', 'to', '82', 'and', 'signing', 'an', 'agreement', 'with', 'the', 'owners', 'of', 'a', 'bacterial', 'oxidation', 'technology', 'that', 'will', 'see', 'it', 'holding', 'the', 'exclusive', 'licence', 'for', 'the', 'process', 'in', 'china', 'siberia', 'mongolia', 'and', 'korea', '17', 'december', '2003', 'full', 'story', 'northern', 'star', 'gets', 'off', 'to', 'strong', 'start', 'perth', 'based', 'northern', 'star', 'resources', 'listed', 'on', 'the', 'australian', 'stock', 'exchange', 'today', 'at', '23', 'cents', 'a', '15', 'premium', 'to', 'its', 'issue', 'price', 'of', '20', 'cents', '17', 'december', '2003', 'full', 'story', 'macquarie', 'to', 'arrange', 'chirano', 'financing', 'red', 'back', 'mining', 'has', 'mandated', 'macquarie', 'bank', 'to', 'arrange', 'and', 'underwrite', 'debt', 'financing', 'for', 'its', 'chirano', 'gold', 'project', 'in', 'ghana', '17', 'december', '2003', 'full', 'story', 'ashburton', 'raises', '1', '28', 'million', 'ashburton', 'minerals', 'has', 'successfully', 'completed', 'a', 'placement',

'to', 'professional', 'investors', 'raising', '1', '28', 'millio  
n', 'to', 'accelerate', 'nickel', 'exploration', 'over', 'the', "c  
ompany's", 'east', 'kimberley', 'project', 'in', 'western', 'austr  
alia', 'and', 'its', 'ashburton', 'gold', 'project', '17', 'decemb  
er', '2003', 'full', 'story', 'kimberley', 'identifies', 'new', 'p  
ipes', 'at', 'ellendale', 'kimberley', 'diamond', 'has', 'identifi  
ed', 'two', 'lamproite', 'pipes', 'and', 'defined', 'gravel', 'hor  
izons', 'within', 'a', 'possible', 'palaeo', 'channel', 'at', 'th  
e', 'northern', 'section', 'of', 'the', 'ellendale', 'lamproite',  
'field', 'in', 'western', 'australia', '17', 'december', '2003',  
'full', 'story', 'georgia', 'on', 'my', 'mind', 'with', 'a', 'mark  
et', 'capitalisation', 'of', 'just', '47', 'million', 'over', '1  
0', 'million', 'in', 'the', 'bank', 'by', 'end', 'of', 'year', '4  
5', '000', 'ounces', 'of', 'attributable', 'gold', 'production',  
'a', 'year', '70', 'of', 'the', 'biggest', 'undeveloped', 'coppe  
r', 'project', 'in', 'australia', 'and', 'some', 'very', 'promisin  
g', 'ground', 'in', 'mexico', "it's", 'not', 'hard', 'to', 'make',  
'an', 'investment', 'case', 'for', 'bolnisi', 'gold', '17', 'decem  
ber', '2003', 'full', 'story', 'lycopodium', 'preferred', 'chiran  
o', 'epcm', 'tendererlycopodium', 'has', 'been', 'chosen', 'by',  
'red', 'back', 'mining', 'as', 'the', 'preferred', 'tenderer', 'fo  
r', 'the', 'epcm', 'contract', 'for', 'the', 'chirano', 'gold', 'p  
roject', 'in', 'ghana', 'full', 'story', 'sds', 'takes', 'over',  
'normet', 'australiasds', 'corp', 'has', 'put', 'some', 'of', 'th  
e', '16', '5', 'million', 'it', 'raised', 'earlier', 'this', 'wee  
k', 'to', 'immediate', 'use', 'with', 'its', '1', '05', 'million',  
'acquisition', 'of', 'normet', 'australia', 'full', 'story', 'face  
lift', 'for', 'hunter', 'valley', 'rail', 'network', 'following',  
'a', 'deal', 'to', 'lease', 'the', 'hunter', 'valley', 'rail', 'ne  
tworks', 'for', 'the', 'next', '60', 'years', 'australian', 'gover  
nment', 'owned', 'australian', 'rail', 'track', 'corp', 'has', 'pr  
omised', 'big', 'things', 'infrastructure', 'upgrades', 'a', '20',  
'reduction', 'in', 'track', 'access', 'charges', 'for', 'coal', 't  
ransport', 'and', 'higher', 'train', 'speeds', 'are', 'some', 'o  
f', 'them', 'miningnews', "net's", 'e', 'newsletter', 'uses', 'a  
n', 'html', 'rich', 'media', 'format', 'to', 'provide', 'a', 'visu  
ally', 'attractive', 'layout', 'if', 'for', 'any', 'reason', 'you  
r', 'computer', 'does', 'not', 'support', 'html', 'format', 'e',  
'mail', 'please', 'let', 'us', 'know', 'by', 'emailing', 'contac  
t', 'miningnews', 'net', 'with', 'your', 'full', 'name', 'and',  
'e', 'mail', 'address', 'and', 'we', 'will', 'ensure', 'you', 'rec  
eive', 'our', 'e', 'newsletter', 'in', 'a', 'plain', 'text', 'form  
at', 'if', 'you', 'have', 'forgotten', 'your', 'password', 'pleas  
e', 'contact', 'helpdesk', 'miningnews', 'net', 'have', 'some', 'n  
ews', 'of', 'your', 'own', 'send', 'your', 'press', 'releases', 'p  
roduct', 'news', 'or', 'conference', 'details', 'to', 'submission  
s', 'miningnews', 'net', 'aspermont', 'limited', 'abn', '66', '00  
0', '375', '048', 'postal', 'address', 'po', 'box', '78', 'leederv  
ille', 'wa', 'australia', '6902', 'head', 'office', 'tel', '61',  
'8', '9489', '9100', 'head', 'office', 'fax', '61', '8', '9381',  
'1848', 'e', 'mail', 'contact', 'aspermont', 'com', 'website', 'ww  
w', 'aspermont', 'com', 'section', 'dryblower', 'investment', 'new  
s', 'mine', 'safety', 'and', 'health', 'environment', 'mine', 'sup  
ply', 'today', 'commodities', 'due', 'diligence', 'exploration',

'general', 'ipos', 'mining', 'events', 'moves', 'mst', 'features', 'resourcestocks', 'commodity', 'coal', 'copper', 'diamonds', 'gold', 'nickel', 'silver', 'zinc', 'bauxite', 'alum', 'chromium', 'cobalt', 'gemstone', 'iron', 'ore', 'kaolin', 'magnesium', 'manganese', 'mineral', 'sand', 'oilshale', 'pgm', 'rare', 'earths', 'salt', 'tantalum', 'tin', 'tungsten', 'uranium', 'vanadium', 'region', 'africa', 'all', 'regions', 'asia', 'australia', 'europe', 'north', 'americ', 'oceania', 'south', 'americ', 'mines', 'and', 'money', 'the', '71', 'st', 'sydney', 'mining', 'club', 'professor', 'geoffrey', 'blainey', 'speaking', 'on', 'mining', 'and', 'the', 'outback', 'reflections', 'the', 'future', 'enterprise', 'sustainability', 'managing', 'triple', 'bottom', 'line', 'performance', 'third', 'international', 'conference', 'on', 'computational', 'fluid', 'dynamics', 'in', 'the', 'minerals', 'process', 'industries', 'show', 'all', 'events']

['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', 'debt', 'forbearance', 'arrangement', 'set', 'to', 'expire', 'on', 'tuesday', 'social', 'edison', 'and', 'pg', 'e', 'are', 'not', 'paying', 'any', 'of', 'their', 'bills', 'except', 'for', 'payroll', 'they', 'are', 'working', 'very', 'hard', 'to', 'keep', 'cash', 'on', 'hand', 'and', 'have', 'indicated', 'that', 'they', 'feel', 'that', 'they', 'are', 'very', 'close', 'to', 'an', 'involuntary', 'bankruptcy', 'filing', 'once', 'this', 'filing', 'occurs', 'they', 'will', 'have', '50', 'days', 'until', 'either', 'the', 'bankruptcy', 'court', 'accepts', 'the', 'filing', 'or', 'the', 'utilities', 'file', 'a', 'voluntary', 'bankruptcy', 'opinion', 'within', 'the', 'assembly', 'is', 'divided', 'with', 'respect', 'to', 'the', 'outlook', 'for', 'bankruptcy', 'assemblyman', 'keeley', 'told', 'our', 'source', 'that', 'a', 'filing', 'is', 'likely', 'but', 'that', 'everything', 'will', 'be', 'resolved', 'during', 'that', '50', 'day', 'period', 'senator', 'john', 'burton', 'is', 'in', 'no', 'hurry', 'to', 'reach', 'a', 'deal', 'with', 'the', 'utilities', 'as', 'he', 'believes', 'that', 'the', 'state', 'of', 'california', 'is', 'in', 'a', 'good', 'position', 'to', 'strong', 'arm', 'the', 'utilities', 'burton', 'currently', 'does', 'not', 'intend', 'to', 'cede', 'to', 'the', 'utilities', 'so', 'that', 'they', 'can', 'avoid', 'bankruptcy', 'the', 'senator', 'stated', 'bankruptcy', 'would', 'be', 'bad', 'but', 'not', 'the', 'worst', 'thing', 'possible', 'he', 'intends', 'to', 'stick', 'to', 'his', 'position', 'senator', 'burton', 'also', 'dismissed', 'governor', 'davis', 'end', 'of', 'week', 'deadline', 'for', 'striking', 'a', 'deal', 'with', 'the', 'utilities', 'still', 'bankruptcy', 'can', 'be', 'avoided', 'if', 'a', 'last', 'minute', 'deal', 'can', 'be', 'struck', 'monday', 'on', 'what', 'the', 'state', 'receives', 'in', 'return', 'for', 'the', 'bailout', 'the', 'scope', 'of', 'rate', 'hikes', 'a', 'federal', 'court', 'is', 'expected', 'to', 'rule', 'on', 'the', 'pg', 'e', 'social', 'v', 'cpuc', 'rate', 'undercollection', 'case', 'monday', 'additional', 'financing', 'is', 'made', 'available', 'to', 'the', 'dwr', 'to', 'buy', 'more', 'power', 'until', 'the', 'revenue', 'bonds', 'can', 'be', 'issued', 'in', 'may', 'there', 'is', 'a', 'possibility', 'that', 'significant', 'progress', 'on', 'these', 'issues', 'could', 'lead', 'to', 'a', 'further', 'extension', 'of', 'creditor', 'forbearance', 'however', 'the', 'negative', 'tone', 'taken', 'by', 'standard', 'poors', 'and', 'others', 'concerning', 'delays', 'in', 'the', 'legislature', 'suggest', 'that', 'further', 'forbearance', 'will', 'difficult', 'to', 'achieve', 'the', 'previous', 'forbearance', 'period', 'was', 'only', 'achieved', 'via', 'a', 'high', 'level', 'washington', 'summit', 'which', 'does', 'not', 'appear', 'likely', 'to', 'happen', 'this', 'weekend', 'additional', 'financing', 'for', 'dwr', 'will', 'not', 'be', 'automatically', 'approved', 'by', 'the', 'legislature', 'the', 'non', 'energy', 'expenditures', 'of', 'the', 'california', 'government', 'are', 'now', 'at', 'risk', 'as', 'there', 'is', 'not', 'yet', 'a', 'rate', 'structure', 'in', 'place', 'to', 'recover', 'the', 'costs', 'being', 'expended', 'on', 'power', 'from', 'the', 'general', 'fund', '2', 'state', 'to', 'take', '2', '3', 'of', 'utility', 'debt', 'while', 'the', 'state', 'seems', 'to', 'have', 'succeeded', 'in', 'forcing', 'the', 'utility', 'parents', '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  
xual', 'dates', 'and', 'meetings', 'cali', '900', 'is', '1', '99',  
'per', 'min', '211075433222']

['dobmeos', 'with', 'hgh', 'my', 'energy', 'level', 'has', 'gon  
e', 'up', 'stukm', 'introducing', 'doctor', 'formulated', 'hgh',  
'human', 'growth', 'hormone', 'also', 'called', 'hgh', 'is', 'refe  
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',  
'bodies', 'begin', 'to', 'produce', 'less', 'of', 'it', 'by', 'th  
e', 'time', 'we', 'are', 'forty', 'nearly', 'everyone', 'is', 'def  
icient', 'in', 'hgh', 'and', 'at', 'eighty', 'our', 'production',  
'has', 'normally', 'diminished', 'at', 'least', '90', '95', 'advan  
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', 'strengthened',  
'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', 'fattroglydyte', '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',  
'jpxdltmuk', 'xqirzd', 'ckgby', 'zk', 'slgavjmoqq', 'zxs', 'aqoj',  
'g']

['need', 'software', 'click', 'here', 'top', 'quality', 'softwar  
e', 'special', 'offer', '1', 'windows', 'xp', 'professional', 'mic  
rosoft', 'office', 'xp', 'professional', 'only', '80', 'special',  
'offer', '2', 'adobe', 'photoshop', '7', 'premiere', '7', 'illustr  
ator', '10', 'only', '120', 'special', 'offer', '3', 'macromedia',  
'dreamwaver', 'mx', '2004', 'flash', 'mx', '2004', 'only', '100',  
'also', 'windows', '2003', 'server', 'windows', '2000', 'workstati  
on', 'windows', '2000', 'server', 'windows', '2000', 'advanced',  
'server', 'windows', '2000', 'datacenter', 'windows', 'nt', '4',  
'0', 'windows', 'millenium', 'windows', '98', 'second', 'edition',  
'windows', '95', 'office', 'xp', 'professional', 'office', '2000',  
'office', '97', 'ms', 'plus', 'ms', 'sql', 'server', '2000', 'ente  
rprise', 'edition', 'ms', 'visual', 'studio', 'net', 'architect',  
'edition', 'ms', 'encarta', 'encyclopedia', 'delux', '2004', 'ms',  
'project', '2003', 'professional', 'ms', 'money', '2004', 'ms', 's  
treets', 'and', 'trips', '2004', 'ms', 'works', '7', 'ms', 'pictur  
e', 'it', 'premium', '9', 'ms', 'exchange', '2003', 'enterprise',  
'server', 'adobe', 'photoshop', 'adobe', 'pagemaker', 'adobe', 'il  
lustrator', 'adobe', 'acrobat', '6', 'professional', 'adobe', 'pre  
miere', 'macromedia', 'dreamwaver', 'mx', '2004', 'macromedia', 'f  
lash', 'mx', '2004', 'macromedia', 'fireworks', 'mx', '2004', 'mac  
romedia', 'freehand', 'mx', '11', 'corel', 'draw', 'graphics', 'su  
ite', '12', 'corel', 'draw', 'graphics', 'suite', '11', 'corel',  
'photo', 'painter', '8', 'corel', 'word', 'perfect', 'office', '20  
02', 'norton', 'system', 'works', '2003', 'borland', 'delphi',  
'7', 'enterprise', 'edition', 'quark', 'xpress', '6', 'passport',  
'multilanguage', 'enter', 'here']

['urg', 'gas', 'securitization', 'agreements', 'fyi', 'srs', 'for  
warded', 'by', 'sherri', 'sera', 'corp', 'enron', 'on', '02', '0  
9', '2001', '08', '39', 'am', 'jauregui', 'robert', 'm', 'on', '0  
2', '08', '2001', '07', '55', '44', 'pm', 'to', 'taylorja', '2',  
'bp', 'com', 'mccclankg', 'bp', 'com', 'sdba', 'dynegy', 'co  
m', 'njwa', 'dynegy', 'com', 'pete', 'j', 'pavluk', 'dynegy',  
'com', 'chuck', 'watson', 'dynegy', 'com', 'pwarden', 'pillsbu  
rywinthrop', 'com', 'repling', 'pillsburywinthrop', 'com', 'mm  
ce', 'dynegy', 'com', 'swbe', 'dynegy', 'com', 'bcli', 'dyne  
gy', 'com', 'singleton', 'greg', 'epenergy', 'com', 'hoferc',  
'epenergy', 'com', 'smithc', 'epenergy', 'com', 'wisew', 'epen  
ergy', 'com', 'jonesg', 'epenergy', 'com', 'colliw', 'texaco',  
'com', 'benewm', 'texaco', 'com', 'underga', 'texaco', 'com',  
'hans', 'cook', 'inlet', 'com', 'prez', 'cook', 'inlet', 'co  
m', 'davidyi', 'cook', 'inlet', 'com', 'dronn', 'mayerbrown',  
'com', 'swidner', 'coral', 'energy', 'com', 'blong', 'coral',  
'energy', 'com', 'ctise', 'coral', 'energy', 'com', 'jeff', 's  
killing', 'enron', 'com', 'william', 's', 'bradford', 'enron',  
'com', 'travis', 'mccullough', 'enron', 'com', 'iccenenergy', 'a  
ol', 'com', 'stefkatz', 'cs', 'com', 'mssessa', 'sempratradin  
g', 'com', 'dfelsinger', 'sempra', 'com', 'mcosta', 'stroock',  
'com', 'jshorter', 'txuenergy', 'com', 'mperkins', '2', 'txuel  
ectric', 'com', 'cenochs', 'txuenergy', 'com', 'bjeffrie', 'we

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',  
 '\_\_\_\_\_  
 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', 'just', 'go', 'to', 'the', 'internet', 'optionscontrol', 'panel', 'and', 'you', 'can', 'turn', 'the', 'image', 'toolbar', 'back', 'on', 'remember', 'a', 'right', 'mouse', 'click', 'over', 'any', 'windows', 'icon', 'window', 'tool', 'bar', 'the', 'desktop', 'and', 'most', 'other', 'windowsentities', 'will', 'list', 'loads', 'of', 'information', 'use', 'it', 'getthe', 'hang', 'of', 'it', "you'll", 'like', 'it', 'peter', 'a', 'steeves', 'b', 'sc', 'm', 'sc', 'ph', 'd', 'p', 'eng', 'geomatics', 'engineergeodetic', 'software', 'systemslogical', 'idirect', 'comhttp', 'www', 'gssgeomatics', 'com', 'questions', 'free', 'advertising', 'to', 'other', 'members', 'and', 'soon', 'chancesto', 'win', 'cash', 'http', 'www', 'cashpo', 'net', 'cashpo', 'openpage', 'php', '4', 'c', '2', 'visit', "ward's", 'gift', 'shop', 'here', 'you', 'can', 'find', 'all', 'your', 'shopping', 'needs', 'on', 'line', 'and', 'good', 'qualityproducts', 'everyday', 'low', 'prices', 'we', 'have', 'dolls', 'angels', 'novelties', 'and', 'so', 'much', 'much', 'more', 'to', 'choose', 'from', 'go', 'to', 'our', 'site', 'and', 'getyour', 'free', 'catalog', 'today', 'over', '3', '000', 'products', 'to', 'choose', 'from', 'http', 'www', 'wardsgiftshop', 'com', 'trade', 'links', 'bjwl', '23', 'freeonline', 'com', 'attention', 'all', 'web', 'marketers', '30', 'k', '100', 'k', 'cash', 'this', 'yearno', 'experience', 'needed', 'no', 'product', 'to', 'sell', 'the', 'real', 'go', 'getter scan', 'make', '100', '000', '00', 'cash', 'in', 'their', 'first', 'month', 'this', 'is', 'verypowerful', 'contact', 'me', 'today', 'ycon', 'home', 'com', 'orgoto', 'http', 'www', 'makecashonline', 'com', 'get', 'excited', 'trade', 'links', 'ycon', 'home', 'com', 'retire', 'quickly', 'free', 'report', 'seven', 'secrets', 'to', 'earning', '100', '000', 'from', 'home', 'fully', 'automated', 'home', 'business', '81', 'commissions', 'incomeunlimited', 'automated', 'sales', 'recruiting', 'and', 'training', 'machine', 'join', 'now', 'http', 'orleantraders', '4', 'yoursuccess', 'orgtrade', 'links', 'bgmlm', '4', 'yoursuccess', 'org', 'if', 'you', 'have', 'a', 'product', 'service', 'opportunity', 'and', 'or', 'quality', 'merchandisethat', 'appeals', 'to', 'people', 'worldwide', 'reach', 'your', 'target', 'audience', 'for', 'a', 'fraction', 'of', 'what', 'other', 'large', 'newsletters', 'charge', 'youcan', 'exhibit', 'your', 'website', 'here', 'for', 'only', '8', 'cpm', 'why', 'because', 'as', 'a', 'valuable', 'member', 'we', 'want', 'you', 'to', 'be', 'successful', 'order', 'today', 'exhibits', 'are', 'limited', 'and', 'published', 'on', 'afirst', 'come', 'first', 'serve', 'basis', 'http', 'bannersgomlm', 'com', 'ezine', 'member', 'reviews', 'click', 'here', 'to', 'edit', 'your', 'preferences', 'or', 'copy', 'the', 'following', 'url', 'into', 'your', 'browser', 'content', 'type', 'text', 'html', 'charset', 'iso', '8859',

'l', 'visit', 'our', 'subscription', 'center', 'to', 'edit', 'you  
r', 'interests', 'or', 'unsubscribe', 'view', 'our', 'privacy', 'p  
olicy', 'this', 'email', 'was', 'sent', 'to', 'those', 'who', 'sig  
ned', 'up', 'for', 'it', 'if', 'you', 'believe', 'it', 'has', 'rea  
ched', 'you', 'in', 'error', 'or', 'you', 'are', 'no', 'longer',  
'interested', 'in', 'receiving', 'it', 'then', 'please', 'click',  
'here', 'to', 'edit', 'your', 'preferences', 'or', 'copy', 'the',  
'following', 'url', 'into', 'your', 'browser']

['when', 'sp', 'm', "doesn't", 'annoy', 'you', 'eternal', 'benso  
n', 'sibilant', 'chartroom', 'hello', 'do', 'you', 'hate', 'spam',  
'this', 'program', 'worked', 'for', 'me', 'if', 'you', 'hate', 'sp  
am', 'like', 'i', 'do', 'you', 'owe', 'it', 'to', 'your', 'self',  
'to', 'try', 'this', 'program', 'and', 'forward', 'this', 'email',  
'to', 'all', 'of', 'your', 'friends', 'which', 'also', 'hate', 'sp  
am', 'or', 'as', 'many', 'people', 'possible', 'together', 'lets',  
'help', 'clear', 'the', 'internet', 'of', 'spam', 'stop', 'spam',  
'in', 'its', 'tracks', 'do', 'you', 'get', 'junk', 'scams', 'and',  
'worse', 'in', 'your', 'inbox', 'every', 'day', 'are', 'you', 'sic  
k', 'of', 'spending', 'valuable', 'time', 'removing', 'the', 'tras  
h', 'is', 'your', 'child', 'receiving', 'inappropriate', 'adult',  
'material', 'if', 'so', 'you', 'should', 'know', 'that', 'no', 'ot  
her', 'solution', 'works', 'better', 'then', 'our', 'software', 't  
o', 'return', 'control', 'of', 'your', 'email', 'back', 'where',  
'it', 'belongs', 'imagine', 'being', 'able', 'to', 'read', 'your',  
'important', 'email', 'without', 'looking', 'through', 'all', 'tha  
t', 'spam', 'stop', 'spam', 'in', 'its', 'tracks', 'starting', 'to  
day', 'opt', 'out', 'here', 'expanse', 'glenda', 'litterbug']

['slotting', 'order', 'confirmation', 'may', '18', '2004', 'etaci  
tne', 'begin\_split', '76', 'the', 'rest', 'of', 'the', 'afternoo  
n', 'was', 'spent', 'in', 'making', 'up', 'the', 'train', 'i', 'a  
m', 'afraid', 'to', 'say', 'how', 'many', 'baggage', 'waggon', 'f  
ollowed', 'the', 'engine', 'certainly', 'a', 'score', 'then', 'cam  
e', 'the', 'chinese', 'then', 'we', 'then', 'the', 'families', 'an  
d', 'the', 'rear', 'was', 'brought', 'up', 'by', 'the', 'conducto  
r', 'in', 'what', 'if', 'i', 'have', 'it', 'rightly', 'is', 'calle  
d', 'his', 'caboose', 'the', 'class', 'to', 'which', 'i', 'belonge  
d', 'was', 'of', 'course', 'far', 'the', 'largest', 'and', 'we',  
'ran', 'over', 'so', 'to', 'speak', 'to', 'both', 'sides', 'so',  
'that', 'there', 'were', 'some', 'caucasians', 'among', 'the', 'ch  
inamen', 'and', 'some', 'bachelors', 'among', 'the', 'families',  
'but', 'our', 'own', 'car', 'was', 'pure', 'from', 'admixture', 's  
ave', 'for', 'one', 'little', 'boy', 'of', 'eight', 'or', 'nine',  
'who', 'had', 'the', 'whooping', 'cough', 'at', 'last', 'about',  
'six', 'the', 'long', 'train', 'crawled', 'out', 'of', 'the', 'tra  
nsfer', 'station', 'and', 'across', 'the', 'wide', 'missouri', 'ri  
ver', 'to', 'omaha', 'westward', 'bound', 'it', 'was', 'a', 'troub  
led', 'uncomfortable', 'evening', 'in', 'the', 'cars', 'there', 'w  
as', 'thunder', 'in', 'the', 'air', 'which', 'helped', 'to', 'kee  
p', 'us', 'restless', 'a', 'man', 'played', 'many', 'airs', 'upo  
n', 'the', 'cornet', 'and', 'none', 'of', 'them', 'were', 'much',  
'attended', 'to', 'until', 'he', 'came', 'to', 'home', 'sweet', 'h  
ome', 'it', 'was', 'truly', 'strange', 'to', 'note', 'how', 'the',  
'talk', 'ceased', 'at', 'that', 'and', 'the', 'faces', 'began', 't  
o', 'lengthen', 'i', 'have', 'no', 'idea', 'whether', 'musically',

'this', 'air', 'is', 'to', 'be', 'considered', 'good', 'or', 'bad', 'but', 'it', 'belongs', 'to', 'that', 'class', 'of', 'art', 'which', 'may', 'be', 'best', 'described', 'as', 'a', 'brutal', 'assault', 'upon', 'the', 'feelings', 'pathos', 'must', 'be', 'relieved', 'by', 'dignity', 'of', 'treatment', 'if', 'you', 'wallow', 'naked', 'in', 'the', 'pathetic', 'like', 'the', 'author', 'of', 'home', 'sweet', 'home', 'you', 'make', 'your', 'hearers', 'weep', 'in', 'an', 'unmanly', 'fashion', 'and', 'even', 'while', 'yet', 'they', 'are', 'moved', 'they', 'despise', 'themselves', 'and', 'hate', 'the', 'occasion', 'of', 'their', 'weakness', 'it', 'did', 'not', 'come', 'to', 'tears', 'that', 'night', 'for', 'the', 'experiment', 'was', 'interrupted', 'an', 'elderly', 'hard', 'looking', 'man', 'with', 'a', 'goatee', 'beard', 'and', 'about', 'as', 'much', 'appearance', 'of', 'sentiment', 'an', 'you', 'would', 'expect', 'from', 'a', 'retired', 'slaver', 'turned', 'with', 'a', 'start', 'and', 'bade', 'the', 'performer', 'stop', 'that', 'damned', 'thing', 'i've', 'heard', 'about', 'enough', 'of', 'that', 'he', 'added', 'give', 'us', 'something', 'about', 'the', 'good', 'country', 'we're', 'going', 'to', 'a', 'murmur', 'of', 'adhesion', 'ran', 'round', 'the', 'car', 'the', 'performer', 'took', 'the', 'instrument', 'from', 'his', 'lips', 'laughed', 'and', 'nodded', 'and', 'then', 'struck', 'into', 'a', 'dancing', 'measure', 'and', 'like', 'a', 'new', 'timotheus', 'stilled', 'immediately', 'the', 'emotion', 'he', 'had', 'raised', 'aka', 'vicqodin', 'xacnax', 'suprervisagra', 'and', 'much', 'morne', 'no', 'presccription', 'neyeded', 'civilizirano', 'gullweig', 'gxol', 'sygl', 'the', 'day', 'faded', 'the', 'lamps', 'were', 'lit', 'a', 'party', 'of', 'ht', 'ht', 'men', 'who', 'got', 'off', 'next', 'evening', 'at', 'north', 'platt', 'e', 'stood', 'together', 'on', 'the', 'stern', 'platform', 'singing', 'the', 'sweet', 'by', 'and', 'bye', 'with', 'very', 'tuneful', 'voices', 'the', 'chums', 'began', 'to', 'put', 'up', 'their', 'beds', 'and', 'it', 'seemed', 'as', 'if', 'the', 'business', 'of', 'the', 'day', 'were', 'at', 'an', 'end', 'but', 'it', 'was', 'not', 'so', 'for', 'the', 'train', 'stopping', 'at', 'some', 'station', 'the', 'cars', 'were', 'instantly', 'thronged', 'with', 'the', 'natives', 'wives', 'and', 'fathers', 'ht', 'men', 'and', 'maidens', 'some', 'of', 'them', 'in', 'little', 'more', 'than', 'nightgear', 'some', 'with', 'stable', 'lanterns', 'and', 'all', 'offering', 'beds', 'for', 'sale', 'their', 'charge', 'began', 'with', 'twenty', 'five', 'cents', 'a', 'cushion', 'but', 'fell', 'before', 'the', 'train', 'went', 'on', 'again', 'to', 'fifteen', 'with', 'the', 'bed', 'board', 'gratis', 'or', 'less', 'than', 'one', 'fifth', 'of', 'what', 'i', 'had', 'paid', 'for', 'mine', 'at', 'the', 'transfer', 'this', 'is', 'my', 'contribution', 'to', 'the', 'economy', 'of', 'future', 'emigrants', 'a', 'great', 'personage', 'on', 'an', 'american', 'train', 'is', 'the', 'newsboy', 'he', 'sells', 'books', 'such', 'books', 'papers', 'fruit', 'lollipops', 'and', 'cigars', 'and', 'on', 'emigrant', 'journeys', 'soap', 'towels', 'tin', 'washing', 'dishes', 'tin', 'coffee', 'pitchers', 'coffee', 'tea', 'sugar', 'and', 'tinned', 'eatables', 'mostly', 'has', 'h', 'or', 'beans', 'and', 'bacon', 'early', 'next', 'morning', 'the', 'newsboy', 'went', 'around', 'the', 'cars', 'and', 'chumming', 'on', 'a', 'more', 'extended', 'principle', 'became', 'the', 'order', 'of', 'the', 'hour', 'it', 'requires', 'but', 'a', 'copartner



y', 'of', 'two', 'to', 'manage', 'beds', 'but', 'washing', 'and', 'eating', 'can', 'be', 'carried', 'on', 'most', 'economically', 'by', 'a', 'syndicate', 'of', 'three', 'i', 'myself', 'entered', 'a', 'little', 'after', 'sunrise', 'into', 'articles', 'of', 'agreement', 'and', 'became', 'one', 'of', 'the', 'firm', 'of', 'pennsylvania', 'shakespeare', 'and', 'dubuque', 'shakespeare', 'was', 'my', 'own', 'nickname', 'on', 'the', 'cars', 'pennsylvania', 'that', 'of', 'my', 'bedfellow', 'and', 'dubuque', 'the', 'name', 'of', 'a', 'place', 'in', 'the', 'state', 'of', 'iowa', 'that', 'of', 'an', 'amiable', 'ht', 'fellow', 'going', 'west', 'to', 'cure', 'an', 'asthma', 'and', 'retarding', 'his', 'recovery', 'by', 'incessantly', 'chewing', 'or', 'smoking', 'and', 'sometimes', 'chewing', 'and', 'smoking', 'together', 'i', 'have', 'never', 'seen', 'tobacco', 'so', 'sillily', 'abused', 'shakespeare', 'bought', 'a', 'tin', 'washing', 'dish', 'dubuque', 'a', 'towel', 'and', 'pennsylvania', 'a', 'brick', 'of', 'soap', 'the', 'partners', 'used', 'these', 'instruments', 'one', 'after', 'another', 'according', 'to', 'the', 'order', 'of', 'their', 'first', 'awaking', 'and', 'when', 'the', 'firm', 'had', 'finished', 'there', 'was', 'no', 'want', 'of', 'borrowers', 'each', 'filled', 'the', 'tin', 'dish', 'at', 'the', 'water', 'filter', 'opposite', 'the', 'stove', 'and', 'retired', 'with', 'the', 'whole', 'stock', 'in', 'trade', 'to', 'the', 'platform', 'of', 'the', 'car', 'there', 'he', 'knelt', 'down', 'supporting', 'himself', 'by', 'a', 'shoulder', 'against', 'the', 'woodwork', 'or', 'one', 'elbow', 'crooked', 'about', 'the', 'railing', 'and', 'made', 'a', 'shift', 'to', 'wash', 'his', 'face', 'and', 'neck', 'and', 'hands', 'a', 'cold', 'an', 'insufficient', 'and', 'if', 'the', 'train', 'is', 'moving', 'rapidly', 'a', 'somewhat', 'dangerous', 'toilet']

[ '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', 'krishnara', '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

o', 'hou', 'ect', 'ect', 'vincent', 'tang', 'hou', 'ect', 'ect', 'ravi', 'thuraisingham', 'hou', 'ect', 'ect', 'paulo', 'issler', 'hou', 'ect', 'ect', 'martin', 'lin', 'hou', 'ect', 'ect', 'ross', 'prevatt', 'hou', 'ect', 'ect', 'michael', 'sergeev', 'hou', 'ect', 'ect', 'patricia', 'tlapek', 'hou', 'ect', 'ect', 'roman', 'zadorozhny', 'hou', 'ect', 'ect', 'martina', 'angelova', 'hou', 'ect', 'ect', 'jason', 'sokolov', 'hou', 'ect', 'ect', 'shirley', 'crenshaw', 'hou', 'ect', 'ect', 'cc', 'subject', 'christmas', 'near', 'hello', 'everyone', 'the', 'pulling', 'of', 'names', 'are', 'completed', 'shirley', 'will', 'inform', 'you', 'as', 'to', 'when', 'we', 'will', 'make', 'exchanges', 'thanks', 'kevin', 'moore', 'forwarded', 'by', 'kevin', 'g', 'moore', 'hou', 'ect', 'on', '12', '13', '99', '08', '50', 'am', 'kevin', 'g', 'moore', '12', '10', '99', '08', '28', 'am', 'to', 'vince', 'j', 'kaminski', 'hou', 'ect', 'ect', 'stinson', 'gibner', 'hou', 'ect', 'ect', 'grant', 'masson', 'hou', 'ect', 'ect', 'vasant', 'shanbhogue', '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', 'tamarchenko', 'hou', 'ect', 'ect', 'vincent', 'tang', 'hou', 'ect', 'ect', 'ravi', 'thuraisingham', 'hou', 'ect', 'ect', 'paulo', 'issler', 'hou', 'ect', 'ect', 'martin', 'lin', 'hou', 'ect', 'ect', 'ross', 'prevatt', 'hou', 'ect', 'ect', 'michael', 'sergeev', 'hou', 'ect', 'ect', 'patricia', 'tlapek', 'hou', 'ect', 'ect', 'roman', 'zadorozhny', 'hou', 'ect', 'ect', 'martina', 'angelova', 'hou', 'ect', 'ect', 'jason', 'sokolov', 'hou', 'ect', 'ect', 'shirley', 'crenshaw', 'hou', 'ect', 'ect', 'cc', 'subject', 'christmas', 'near', 'goodmorning', 'things', 'went', 'well', 'on', 'yesterday', 'with', 'names', 'being', 'pulled', 'here', 'is', 'a', 'list', 'of', 'people', 'who', 'have', 'to', 'pull', 'a', 'name', 'stinson', 'gibner', 'samer', 'takriti', 'ravi', 'thuraisingham', 'martin', 'lin', 'alexios', 'kollaros', 'shirley', 'crenshaw', 'letters', 'celebrate', 'at', 'work', 'with', 'each', 'other', 'making', 'the', 'last', 'christmas', 'in', '1999', 'great', 'reminder', 'if', 'you', 'feel', 'you', 'will', 'be', 'unable', 'to', 'attend', 'the', 'exchanging', 'of', 'the', 'gifts', 'please', 'do', 'not', 'let', 'that', 'stop', 'you', 'from', 'participating', 'each', 'persons', 'name', 'has', 'been', 'entered', 'can', 'you', 'guess', 'who', 'has', 'your', 'name', 'we', 'have', 'a', 'gift', 'for', 'you', 'so', 'if', 'you', 'can', 'not', 'attend', 'for', 'any', 'reason', 'please', 'know', 'that', 'you', 'are', 'included', 'and', 'your', 'gift', 'will', 'be', 'here', 'when', 'you', 'return', 'wishing', 'all', 'a', 'merry', 'christmas', 'and', 'a', 'good', 'kick', 'off', 'to', 'happy', 'holidays', 'thanks', 'kevin', 'moore', 'forwarded', 'by', 'kevin', 'g', 'moore', 'hou', 'ect', 'on', '12', '10', '99', '06', '40', 'am', 'kevin', 'g', 'moore', '12', '08', '99', '07', '47', 'am', 'to', 'vince', 'j', 'kaminski', 'hou', 'ect', 'ect', 'stinson', 'gibner', 'hou', 'ect', 'ect', 'grant', 'masson', 'hou', 'ect', 'ect', 'vasant', 'shanbhogue', 'hou', 'ect', 'ect', 'maureen', 'raymond', 'hou', 'ect', 'ect', 'pin

namaneni', 'krishnarao', 'hou', 'ect', 'ect', 'zimin', 'lu', 'ho  
u', 'ect', 'ect', 'mike', 'a', 'roberts', 'hou', 'ect', 'ect', 'sa  
mer', 'takriti', 'hou', 'azurix', 'azurix', 'amitava', 'dhar', 'co  
rp', 'enron', 'enron', 'joseph', 'hrgovcic', 'hou', 'ect', 'ect',  
'alex', 'huang', 'corp', 'enron', 'enron', 'kevin', 'kindall', 'co  
rp', 'enron', 'enron', 'osman', 'sezgen', 'hou', 'ees', 'ees', 'ta  
nya', 'tamarchenko', 'hou', 'ect', 'ect', 'vincent', 'tang', 'ho  
u', 'ect', 'ect', 'ravi', 'thuraisingham', 'hou', 'ect', 'ect', 'p  
aulo', 'issler', 'hou', 'ect', 'ect', 'martin', 'lin', 'hou', 'ec  
t', 'ect', 'ross', 'prevatt', 'hou', 'ect', 'ect', 'michael', 'ser  
geev', 'hou', 'ect', 'ect', 'patricia', 'tlapek', 'hou', 'ect', 'e  
ct', 'roman', 'zadorozhny', 'hou', 'ect', 'ect', 'martina', 'angel  
ova', 'hou', 'ect', 'ect', 'jason', 'sokolov', 'hou', 'ect', 'ec  
t', 'shirley', 'crenshaw', 'hou', 'ect', 'ect', 'cc', 'subject',  
'christmas', 'drawing', 'near', 'ho', 'ho', 'ho', 'merry', 'christ  
mas', 'on', 'thursday', 'we', 'will', 'pull', 'names', 'once', 'ag  
ain', 'this', 'is', 'so', 'we', 'may', 'share', 'in', 'the', 'chri  
stmas', 'spirit', 'and', 'show', 'our', 'appreciation', 'for', 'on  
e', 'another', 'we', 'will', 'then', 'join', 'and', 'exchange', 'g  
ifts', 'on', 'a', 'later', 'date', 'stay', 'tuned', 'if', 'for',  
'some', 'chance', 'you', 'will', 'not', 'be', 'present', 'on', 'th  
ursday', 'feel', 'free', 'to', 'stop', 'by', 'my', 'desk', 'and',  
'pull', 'your', 'name', 'today', 'eb', '3130', 'a', 'x', '34710',  
'join', 'in', 'the', 'fun', 'and', 'remember', 'keep', 'it', 'simp  
le', 'thanks', 'kevin', 'moore', 'forwarded', 'by', 'kevin', 'g',  
'moore', 'hou', 'ect', 'on', '12', '08', '99', '06', '55', 'am',  
'kevin', 'g', 'moore', '12', '07', '99', '09', '40', 'am', 'to',  
'vince', 'j', 'kaminski', 'hou', 'ect', 'ect', 'stinson', 'gibne  
r', 'hou', 'ect', 'ect', 'grant', 'masson', 'hou', 'ect', 'ect',  
'vasant', 'shanbhogue', 'hou', 'ect', 'ect', 'maureen', 'raymond',  
'hou', 'ect', 'ect', 'pinnamaneni', 'krishnarao', 'hou', 'ect', 'e  
ct', 'zimin', 'lu', 'hou', 'ect', 'ect', 'mike', 'a', 'roberts',  
'hou', 'ect', 'ect', 'samer', 'takriti', 'hou', 'azurix', 'azuri  
x', 'amitava', 'dhar', 'corp', 'enron', 'enron', 'joseph', 'hrgovc  
ic', 'hou', 'ect', 'ect', 'alex', 'huang', 'corp', 'enron', 'enro  
n', 'kevin', 'kindall', 'corp', 'enron', 'enron', 'osman', 'sezge  
n', 'hou', 'ees', 'ees', 'tanya', 'tamarchenko', 'hou', 'ect', 'ec  
t', 'vincent', 'tang', 'hou', 'ect', 'ect', 'ravi', 'thuraisingha  
m', 'hou', 'ect', 'ect', 'paulo', 'issler', 'hou', 'ect', 'ect',  
'martin', 'lin', 'hou', 'ect', 'ect', 'ross', 'prevatt', 'hou', 'e  
ct', 'ect', 'michael', 'sergeev', 'hou', 'ect', 'ect', 'patricia',  
'tlapek', 'hou', 'ect', 'ect', 'roman', 'zadorozhny', 'hou', 'ec  
t', 'ect', 'martina', 'angelova', 'hou', 'ect', 'ect', 'jason', 's  
okolov', 'hou', 'ect', 'ect', 'shirley', 'crenshaw', 'hou', 'ect',  
'ect', 'cc', 'subject', 'christmas', 'drawing', 'near', 'hello',  
'everyone', 'we', 'would', 'like', 'for', 'christmas', 'this', 'ye  
ar', 'that', 'the', 'research', 'group', 'pull', 'names', 'as',  
'a', 'way', 'of', 'sharing', 'in', 'the', 'spirit', 'of', 'christm  
as', 'and', 'as', 'appreciation', 'for', 'one', 'another', 'we',  
'want', 'to', 'keep', 'it', 'simple', 'so', 'the', 'gift', 'shoul  
d', 'be', 'less', 'than', 'twenty', 'dollars', 'please', 'everyon  
e', 'participate', 'your', 'name', 'is', 'already', 'entered',  
'i', 'will', 'return', 'with', 'more', 'info', 'later', 'thanks',  
'kevin', 'moore', 'let's', 'have', 'a', 'wonderful', 'christmas',

'at', 'work']  
['meter', '1517', 'jan', '1999', 'george', 'i', 'need', 'the', 'following', 'done', 'jan', '13', 'zero', 'out', '012', '27049', '02', '001', 'receipt', 'package', 'id', '2666', 'allocate', 'flow', 'of', '149', 'to', '012', '64610', '02', '055', 'deliv', 'package', 'id', '392', 'jan', '26', 'zero', 'out', '012', '27049', '02', '001', 'receipt', 'package', 'id', '3011', 'zero', 'out', '012', '64610', '02', '055', 'deliv', 'package', 'id', '392', 'these', 'were', 'buybacks', 'that', 'were', 'incorrectly', 'nominated', 'to', 'transport', 'contracts', 'ect', '201', 'receipt', 'let', 'me', 'know', 'when', 'this', 'is', 'done', 'hc']  
['human', 'resources', 'organization', 'as', 'enron', 'continue', 's', 'to', 'address', 'the', 'human', 'capital', 'needs', 'of', 'the', 'organization', 'there', 'are', 'several', 'changes', 'in', 'enron', 's', 'human', 'resources', 'hr', 'organization', 'i', 'd', 'like', 'to', 'share', 'with', 'you', 'in', 'corporate', 'human', 'resources', 'brian', 'schaffer', 'will', 'lead', 'the', 'office', 'of', 'labor', 'and', 'employment', 'relations', 'function', 'including', 'resource', 'management', 'corporate', 'training', 'activities', 'and', 'workforce', 'development', 'mary', 'joyce', 'will', 'continue', 'to', 'have', 'responsibility', 'for', 'executive', 'compensation', 'and', 'our', 'global', 'equity', 'plans', 'cynthia', 'barrow', 'in', 'addition', 'to', 'benefits', 'will', 'be', 'responsible', 'for', 'the', 'development', 'of', 'work', 'life', 'programs', 'across', 'enron', 'brad', 'coleman', 'will', 'be', 'responsible', 'for', 'analysis', 'and', 'reporting', 'in', 'addition', 'to', 'the', 're', 'engineering', 'of', 'the', 'hr', 'service', 'center', 'gerry', 'gibson', 'will', 'work', 'closely', 'with', 'me', 'to', 'provide', 'organizational', 'development', 'training', 'expertise', 'for', 'hr', 's', 'continuing', 'evolution', 'andrea', 'yowman', 'will', 'be', 'responsible', 'for', 'several', 'projects', 'which', 'are', 'critical', 'to', 'hr', 's', 'on', 'going', 'success', 'including', 'the', 'sap', 'implementation', 'global', 'information', 'system', 'gis', 'database', 'and', 'total', 'compensation', 'system', 'development', 'in', 'addition', 'she', 'will', 'have', 'responsibility', 'for', 'the', 'human', 'resource', 'information', 'system', 'hris', 'the', 'hr', 'generalist', 'functions', 'for', 'corporate', 'will', 'be', 'handled', 'by', 'the', 'following', 'gwen', 'petteway', 'public', 'relations', 'government', 'affairs', 'legal', 'investor', 'relations', 'corporate', 'development', 'epsc', 'aviation', 'enron', 'federal', 'credit', 'union', 'and', 'the', 'analyst', 'and', 'associate', 'program', 'kim', 'rizzi', 'accounting', 'and', 'human', 'resources', 'sheila', 'walton', 'rac', 'finance', 'and', 'enron', 'development', 'corp', 'in', 'addition', 'to', 'her', 'responsibilities', 'in', 'enron', 'at', 'the', 'business', 'unit', 'level', 'we', 've', 'established', 'two', 'geographic', 'hubs', 'for', 'our', 'wholesale', 'business', 'units', 'drew', 'lynch', 'will', 'be', 'in', 'london', 'with', 'the', 'hr', 'responsibility', 'for', 'the', 'eastern', 'hemisphere', 'including', 'london', 'apachi', 'and', 'india', 'drew', 's', 'senior', 'leadership', 'team', 'will', 'include', 'nigel', 'sellens', 'ranen', 'sengupta', 'and', 'scott', 'gilchrist', 'david', 'oxley', 'will', 'be', 'located', 'in', 'houston', 'with', 'hr', 'responsibility', 'for', 'the', 'western', 'hemisphere',

'including', 'north', 'america', 'calme', 'and', 'south', 'americ  
a', 'david', 's', 'senior', 'leadership', 'team', 'will', 'includ  
e', 'miguel', 'padron', 'janie', 'bonnard', 'sheila', 'knudsen',  
'and', 'cindy', 'skinner', 'we', 'believe', 'these', 'hubs', 'ca  
n', 'result', 'in', 'a', 'more', 'effective', 'hr', 'organizatio  
n', 'and', 'also', 'facilitate', 'the', 'movement', 'of', 'talen  
t', 'where', 'needed', 'in', 'those', 'regions', 'the', 'followin  
g', 'are', 'the', 'hr', 'leaders', 'responsible', 'for', 'the', 'r  
emaining', 'business', 'units', 'dave', 'schafer', 'gpg', 'gary',  
'smith', 'wind', 'robert', 'jones', 'net', 'works', 'marla', 'barn  
ard', 'ebs', 'ray', 'bennett', 'ees', 'efs', 'willie', 'williams',  
'ee', 'cc', 'nepco', 'germy', 'chatham', 'egep', 'please', 'cl  
ick', 'on', 'the', 'following', 'link', 'to', 'view', 'the', 'hr',  
'organization', 'chart']

['re', 'brazil', 'commercial', 'update', 'version', 'delete', 'pr  
evious', 'louise', 'sorry', 'i', 'just', 'received', 'your', 'not  
e', 'the', 'extent', 'of', 'any', 'discussion', 'was', 'dave', 'th  
anking', 'me', 'over', 'the', 'phone', 'for', 'the', 'inputs', 'an  
d', 'recognizing', 'that', 'he', 'and', 'john', 'incorporated', 's  
ome', 'of', 'the', 'content', "we've", 'never', 'had', 'what',  
'i', 'had', 'been', 'expecting', 'or', 'at', 'least', 'presumed',  
'appropriate', 'i', 'e', 'prior', 'to', 'any', 'formal', 'decisio  
n', 'for', 'the', 'region', 'entertaining', 'an', 'in', 'person',  
'detailed', 'discussion', 'of', 'the', 'examples', 'and', 'recomme  
ndations', 'including', 'a', 'welcome', 'cross', 'examination', 'o  
f', 'my', 'observations', 'that', 'might', 'conflict', 'with', 'of  
ficial', 'report', 'or', 'view', 'john', 'and', 'dave', 'asked',  
'me', 'to', 'talk', 'with', 'brett', 'kish', 'and', 'gonzalez', 'b  
ut', 'if', 'you', 'look', 'at', 'my', 'recommendations', 'and', 'a  
lso', 'consider', 'the', 'overall', 'performance', 'in', 'the', 'r  
egion', 'does', 'this', 'make', 'the', 'best', 'sense', "i've", 'd  
one', 'this', 'again', 'and', 'in', 'fact', 'had', 'already', 'int  
roduced', 'my', 'ideas', 'to', 'each', 'of', 'them', 'and', 'the',  
'previous', 'system', 'prior', 'to', 'forwarding', 'them', 'to',  
'houston', 'prior', 'to', 'having', 'to', 'leave', 'enron', 'i',  
'wanted', 'to', 'make', 'a', 'best', 'effort', 'to', 'get', 'the',  
'authority', 'to', 'execute', 'the', 'recommendations', "i've", 'p  
retty', 'consistently', 'introduced', 'since', 'joining', 'in', 'l  
ate', '1998', 'and', 'tried', 'to', 'get', 'enron', 'to', 'impleme  
nt', 'under', 'the', 'previous', 'management', 'i', 'have', 'not',  
'had', 'the', 'opportunity', 'to', 'manage', 'or', 'influence', 't  
he', "company's", 'operations', 'in', 'south', 'america', 'this',  
'is', 'my', 'fault', 'for', 'not', 'negotiating', 'a', 'more', 'se  
nior', 'position', 'but', 'i', 'made', 'the', 'attempt', 'in', 'th  
e', 'region', 'and', 'more', 'recently', 'with', 'the', 'new', 'ma  
nagers', 'to', 'demonstrate', 'a', 'need', 'to', 'open', 'construc  
tive', 'critical', 'discussion', 'anyway', "i've", 'tried', 'to',  
'open', 'the', 'door', 'to', 'john', 'dave', 'and', 'you', 'and',  
'others', 'who', 'are', 'interested', 'to', 'brainstorm', 'includi  
ng', 'the', 'leadership', 'in', 'place', 'in', 'esa', 'to', 'under  
stand', 'and', 'perhaps', 'leverage', 'my', 'applied', 'experie  
nce', 'both', 'trading', 'origination', 'and', 'importantly', 'cultu  
ral', 'my', 'resume', 'below', 'should', 'attest', 'to', 'my', 'ca  
pabilities', 'at', 'least', 'in', 'terms', 'of', 'the', 'potentia

l', 'value', 'of', 'my', 'observations', 'thank', 'you', 'for', 'y  
our', 'efforts', 'extended', 'in', 'my', 'behalf', 'and', 'good',  
'luck', 'in', 'your', 'new', 'position', 'and', 'working', 'withi  
n', 'enron's', 'unique', 'dynamic', 'ethic', 'd'arcy', 'louise',  
'kitchen', 'ect', '02', '09', '2001', '01', '46', 'pm', 'to', 'd'a  
rcy', 'carroll', 'sa', 'enron', 'enron', 'cc', 'subject', 're', 'b  
razil', 'commercial', 'update', 'version', 'delete', 'previous',  
'i', 'have', 'spoken', 'to', 'john', 'lavorato', 'on', 'this', 'an  
d', 'he', 'says', 'that', 'dave', 'and', 'john', 'have', 'alread  
y', 'spoken', 'to', 'you', 'on', 'this', 'do', 'we', 'still', 'nee  
d', 'to', 'meet', 'as', 'i', 'have', 'no', 'different', 'opinion',  
'to', 'them', 'at', 'this', 'time', 'louise', 'd'arcy', 'carroll',  
'enron', '02', '09', '2001', '11', '13', 'am', 'to', 'louise', 'ki  
tchen', 'ect', 'cc', 'subject', 'brazil', 'commercial', 'update',  
'version', 'delete', 'previous', 'louise', 'this', 'is', 'a', 'lo  
t', 'of', 'text', 'including', 'the', 'attatched', 'files', 'but',  
'is', 'the', 'summary', 'gist', 'of', 'what', 'i', 'have', 'trie  
d', 'to', 'communicate', 'internally', 'and', 'am', 'asking', 't  
o', 'discuss', 'with', 'you', 'this', 'morning', 'forwarded', 'b  
y', 'd'arcy', 'carroll', 'sa', 'enron', 'on', '02', '09', '2001',  
'02', '14', 'pm', 'd'arcy', 'carroll', '11', '09', '2000', '06',  
'20', 'pm', 'to', 'david', 'w', 'delainey', 'ect', 'john', 'j', 'l  
avorato', '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', 'perspec  
tive', 'the', 'org', 'charts', 'will', 'need', 'some', 'discussio  
n', 'particularly', 'in', 'regard', 'to', 'the', 'strengths', 'an  
d', 'weakness', 'of', 'employed', 'personnel', 'and', 'urgent', 'n  
eed', 'for', 'an', 'improved', 'structure', 'over', 'the', 'fh',  
'2000', 'and', 'within', 'the', 'new', 'structure', 'with', 'bret  
t', 'and', 'joao', 'carlos', 'albuquerque', 'in', 'place', 'the',  
'wholesale', 'group', 'and', 'trading', 'desk', 'seems', 'to', 'ha  
ve', 'made', 'some', 'important', 'strides', 'forward', 'in', 'ter  
ms', 'of', 'recruiting', 'some', 'good', 'individuals', 'and', 'i  
n', 'trading', 'terms', 'finally', 'executing', 'some', 'fundament  
al', 'market', 'supply', 'demand', 'and', 'transmission', 'analysi  
s', 'to', 'get', 'into', 'the', 'game', 'quickly', 'and', 'aggress  
ively', 'though', 'i', 'think', 'the', 'commercial', 'group', 'nee  
ds', 'to', 'hire', 'some', 'senior', 'local', 'trading', 'expertis  
e', 'i', 'apologize', 'but', 'was', 'unable', 'to', 'get', 'in',  
'contact', 'with', 'either', 'of', 'these', 'two', 'guys', 'to',  
'set', 'up', 'a', 'possible', 'meeting', 'this', 'week', 'howeve  
r', 'they', 'have', 'the', 'local', 'knowledge', 'trading', 'compe  
tencies', 'and', 'management', 'experience', 'which', 'i', 'consid  
er', 'needed', 'to', 'catalyze', 'the', 'regional', 'effort', 'axe  
l', 'hinsch', 'argentine', 'and', 'cargill', 'employee', 'with',  
'several', 'years', 'and', 'broad', 'commodity', 'and', 'financia  
l', 'trading', 'business', 'development', 'and', 'management', 'ex  
perience', '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', 'swis

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', 'fyr', '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']

['duns', 'number', 'changes', 'fyi', 'forwarded', 'by', 'gary', 'l', 'payne', 'hou', 'ect', 'on', '12', '14', '99', '02', '35', 'pm', 'from', 'antoine', 'v', 'pierre', '12', '14', '99', '02', '34', 'pm', 'to', 'tommy', 'j', 'yanowski', 'hou', 'ect', 'ect', 'kathryn', 'bussell', 'hou', 'ect', 'ect', 'gary', 'l', 'payne', 'hou', 'ect', 'ect', 'diane', 'e', 'niestrath', 'hou', 'ect', 'ect', 'romeo', 'd'souza', 'hou', 'ect', 'ect', 'michael', 'eiben', 'hou', 'ect', 'ect', 'clem', 'cernosek', 'hou', 'ect', 'ect', 'scotty', 'gilbert', 'hou', 'ect', 'ect', 'dave', 'nommensen', 'hou', 'ect', 'ect', 'david', 'rohan', 'hou', 'ect', 'ect', 'kevin', 'heal', 'cal', 'ect', 'ect', 'richard', 'pinion', 'hou', 'ect', 'ect', 'cc', 'mary', 'g', 'gosnell', 'hou', 'ect', 'ect', 'jason', 'moore', 'hou', 'ect', 'ect', 'samuel', 'schott', 'hou', 'ect', 'ect', 'bernice', 'rodriguez', 'hou', 'ect', 'ect', 'subject', 'duns', 'number', 'changes', 'i', 'will', 'be', 'making', 'these', 'changes', 'at', '11', '00', 'am', 'on', 'wednesday', 'december', '15', 'if', 'you', 'do', 'not', 'agree', 'or', 'have', 'a', 'problem', 'with', 'the', 'dnb', 'number', 'change', 'please', 'notify', 'm

e', 'otherwise', 'i', 'will', 'make', 'the', 'change', 'as', 'scheduled', 'dunns', 'number', 'change', 'counterparty', 'cp', 'id', 'number', 'from', 'to', 'cinergy', 'resources', 'inc', '62163', '869279893', '928976257', 'energy', 'dynamics', 'management', 'inc', '69545', '825854664', '088889774', 'south', 'jersey', 'resources', 'group', 'llc', '52109', '789118270', '036474336', 'transalta', 'energy', 'marketing', 'us', 'inc', '62413', '252050406', '255326837', 'philadelphia', 'gas', 'works', '33282', '148415904', '146907159', 'thanks', 'rennie', '3', '7578']

['stentofon', 'goodmorning', 'liz', 'we', 'are', 'in', 'need', 'of', 'another', 'stentofon', 'for', 'trisha', 'tlapek', 'she', 'works', 'very', 'closely', 'with', 'the', 'traders', 'and', 'it', 'is', 'important', 'for', 'quick', 'communication', 'thanks', 'kevin', 'moore']

['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', 'd'arcy', 'carroll', 'sa', 'enron', 'on', '02', '09', '2001', '02', '14', 'pm', 'd'arcy', 'carroll', '11', '09', '2000', '06', '20', 'pm', 'to', 'david', 'w', 'delainey', '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  
p', 'links', 'on', 'http', 'linkpaks', 'com', 'paidtosurf', 'surfo  
la', 'php', 'page', 'zaak', 'oconan', 'netpreneur', 'http', 'lin  
kpaks', 'com', 'surf', 'earn', 'guides', 'http', 'linktocash', 'co  
m', 'internet', 'businesses', 'for', 'under', '100', 'http', 'itea  
m', 'ws', 'the', 'hottest', 'product', 'on', 'the', 'net', 'toda  
y', 'next', 'answer', 'same', 'question', 'from', 'wyn', 'publishi  
ng', 'wynpublishing', 'iname', 'com', 'subject', 'using', 'a', 'pr  
oxy', 'to', 'visit', 'blocked', 'sites', 'from', 'cj', 'cj', '500  
0', 'post', 'com', 'subject', 'unblocking', 'sites', 'so', 'i', 'c  
an', 'access', 'issue', '422', 'cj', 'two', 'such', 'sites', 'tha  
t', 'allows', 'proxy', 'surfing', 'are', 'http', 'www', 'anonymis  
e', 'com', 'and', 'http', 'www', 'anonymizer', 'com', 'however',  
'if', 'you', 'cannot', 'get', 'to', 'that', 'site', 'then', 'obvio  
usly', 'it', 'will', 'not', 'work', 'also', 'note', 'that', 'if',  
'your', 'isp', 'is', 'dictating', 'to', 'you', 'which', 'sites',  
'you', 'may', 'or', 'may', 'not', 'visit', 'then', 'it', 'is', 'ti  
me', 'to', 'change', 'providers', 'gregory', 'bendickson', 'wyn',  
'publishing', 'over', '28', 'free', 'traffic', 'exchange', 'servic  
es', 'reviewed', 'in', 'a', 'fully', 'customizable', 'e', 'book',  
'download', 'yours', 'free', 'and', 'get', 'multiple', 'signups',  
'while', 'learning', 'the', 'art', 'of', 'free', 'web', 'traffic',  
'http', 'www', 'trafficmultipliers', 'com', 'website', 'showcase  
s', 'examine', 'carefully', 'those', 'with', 'email', 'addresses',  
'included', 'will', 'trade', 'links', 'with', 'you', 'you', 'are',  
'encouraged', 'to', 'contact', 'them', 'and', 'there', 'are', 'man  
y', 'ways', 'to', 'build', 'a', 'successful', 'business', 'just',  
'look', 'at', 'these', 'successful', 'sites', 'programs', 'other',  
'members', 'are', 'involved', 'in', 'it's', 'the', 'most', 'd',  
'a', 'n', 'g', 'e', 'r', 'o', 'u', 's', 'book', 'on', 'the', 'ne  
t', 'email', '20', '000', 'targeted', 'leads', 'every', 'single',  
'day', 'slash', 'your', 'time', 'online', 'to', 'just', '1', '2',  
'hours', 'daily', 'build', '11', 'monthly', 'income', 'streams',  
'promoting', 'one', 'url', 'start', 'building', 'your', 'busines  
s', 'not', 'everyone', 'elses', 'http', 'www', 'roibot', 'com',  
'w', 'cgi', 'r', '8901\_bd\_shwc', 'is', 'your', 'website', 'gettin  
g', 'traffic', 'but', 'not', 'orders', 'profile', 'analyze', 'prom  
ote', 'and', 'track', 'your', 'site', 'to', 'get', 'the', 'result  
s', 'you', 'want', 'fully', 'guaranteed', 'free', 'trial', 'avala

ble', 'http', 'www', 'roibot', 'com', 'w', 'cgi', 'r', '4887\_saa',  
'over', '7168', 'sites', 'to', 'place', 'your', 'free', 'ad', 'ge  
t', 'immediate', 'free', 'exposure', 'on', 'thousands', 'of', 'sit  
es', 'plus', 'two', 'free', 'programs', 'that', 'will', 'automatic  
ally', 'type', 'your', 'ad', 'for', 'you', 'pay', 'one', 'time',  
'promote', 'all', 'the', 'time', 'if', 'you', 'have', 'a', 'produc  
t', 'service', 'opportunity', 'and', 'or', 'quality', 'merchandise',  
'that', 'appeals', 'to', 'people', 'worldwide', 'reach', 'you  
r', 'target', 'audience', 'for', 'a', 'fraction', 'of', 'what', 'o  
ther', 'large', 'newsletters', 'charge', 'you', 'can', 'exhibit',  
'your', 'website', 'here', 'for', 'only', '8', 'cpm', 'why', 'beca  
use', 'as', 'a', 'valuable', 'member', 'we', 'want', 'you', 'to',  
'be', 'successful', 'order', 'today', 'exhibits', 'are', 'limite  
d', 'and', 'published', 'on', 'a', 'first', 'come', 'first', 'serv  
e', 'basis', 'http', 'bannersgomlm', 'com', 'ezine', 'member', 're  
views', 'visit', 'these', 'sites', 'look', 'for', 'what', 'you',  
'like', 'and', 'any', 'suggestions', 'you', 'can', 'offer', 'and',  
'send', 'your', 'critique', 'to', 'myinput', 'aeopublishing', 'co  
m', 'and', 'after', 'reviewing', 'three', 'sites', 'your', 'web',  
'site', 'will', 'be', 'added', 'to', 'the', 'list', "it's", 'fun',  
'easy', 'and', "it's", 'a', 'great', 'opportunity', 'to', 'give',  
'some', 'help', 'and', 'receive', 'an', 'informative', 'review',  
'of', 'your', 'own', 'site', 'plus', 'you', 'can', 'also', 'win',  
'a', 'chance', 'to', 'have', 'your', 'site', 'chosen', 'for', 'a',  
'free', 'website', 'redesign', 'one', 'randomly', 'drawn', 'winne  
r', 'each', 'month', 'sites', 'to', 'review', 'site', '124', 'htt  
p', 'www', 'bestwaytoshop', 'com', 'dale', 'pike', 'rhinopez', 'ao  
l', 'com', 'site', '125', 'http', 'www', 'wedeliverparties', 'co  
m', 'dawn', 'clemons', 'dclemons', '7', 'home', 'com', 'site', '12  
6', 'http', 'www', 'eclassifiedshq', 'com', 'carol', 'cohen', 'opp  
portunity', 'aol', 'com', 'site', 'reviewed', 'comments', 'on', 'si  
te', '123', 'http', 'netsbestinfo', 'homestead', 'com', 'nbi', 'ht  
ml', 'dennis', 'damorganjr', 'yahoo', 'com', 'i', 'reviewed', 'sit  
e', '123', 'and', 'found', 'the', 'size', 'of', 'the', 'font', 't  
o', 'be', 'too', 'aggressive', 'and', 'i', "don't", 'like', 'musta  
rd', 'yellow', 'for', 'a', 'background', 'also', 'in', 'the', 'sec  
ond', 'or', 'third', 'paragraph', 'is', 'a', 'misspelled', 'word',  
'which', 'should', 'be', 'first', 'come', 'not', 'as', 'shown', 'o  
n', 'the', 'page', 'i', 'feel', 'a', 'sample', 'of', 'the', 'typ  
e', 'of', 'information', 'offered', 'in', 'the', 'newsletter', 'sh  
ould', 'be', 'displayed', 'on', 'the', 'page', 'as', 'well', 'as',  
'a', 'sample', 'of', 'the', 'free', 'ads', 'offered', 'on', 'the',  
'site', 'i', 'will', 'probably', 'submit', 'a', 'free', 'ad', 'jus  
t', 'to', 'see', 'the', 'content', 'of', 'the', 'newsletter', 'a  
s', 'has', 'been', 'mentioned', 'many', 'times', 'some', 'informat  
ion', 'about', 'the', 'person', 'doing', 'the', 'page', 'is', 'alw  
ays', 'good', 'we', 'need', 'some', 'information', 'about', 'why',  
'this', 'newsletter', 'will', 'be', 'worthwhile', 'to', 'subscrib  
e', 'to', 'dennis', 'i', 'took', 'a', 'look', 'at', 'your', 'sit  
e', 'and', 'have', 'recommendations', 'for', 'improving', 'your',  
'page', '1', 'i', 'use', 'internet', 'explorer', 'and', 'view', 'w  
eb', 'pages', 'with', 'my', 'text', 'size', 'set', 'to', '"', "sma  
ller", 'the', 'text', 'you', 'used', 'was', 'quite', 'large', 'li  
ke', 'a', 'font', 'used', 'for', 'a', 'heading', 'for', 'all', 'th

e', 'text', 'by', 'making', 'the', 'text', 'size', 'smaller', 'i  
t', "wouldn't", 'feel', 'like', 'you', 'were', 'screaming', 'at',  
'me', 'also', 'the', 'background', 'was', 'just', 'too', 'much',  
'2', 'there', 'were', 'spelling', 'errors', 'in', 'the', 'text',  
'often', 'it', 'might', 'be', 'difficult', 'for', 'you', 'to', 'sp  
ot', 'these', 'yourself', 'if', 'you', 'see', 'the', 'page', 'al  
l', 'the', 'time', 'but', 'have', 'a', 'friend', 'look', 'it', 'ov  
er', 'spelling', 'errors', 'make', 'the', 'page', 'look', 'unprofe  
ssional', '3', 'offer', 'a', 'sample', 'of', 'your', 'newsletter',  
'so', 'people', 'can', 'see', 'what', 'it', 'looks', 'like', 'befo  
re', 'they', 'subscribe', 'also', 'if', 'you', 'are', 'asking', 'f  
or', 'a', 'person', 'to', 'give', 'you', 'their', 'email', 'addres  
s', 'you', 'must', 'have', 'a', 'privacy', 'policy', 'and', 'let',  
'them', 'know', 'they', 'can', 'unsubscribe', '4', 'think', 'abou  
t', 'adding', 'a', 'form', 'for', 'people', 'to', 'subscribe', 't  
o', 'the', 'newsletter', 'it', 'looks', 'more', 'professional', 't  
han', 'just', 'offering', 'an', 'email', 'address', 'to', 'send',  
'to', '5', 'offer', 'information', 'about', 'yourself', 'and', 'th  
e', 'kinds', 'of', 'information', 'your', 'newsletter', 'contain  
s', 'maybe', 'extend', 'your', 'site', 'to', 'include', 'back', 'i  
ssues', 'or', 'an', 'archive', 'to', 'see', 'what', 'information',  
'you', 'have', 'offered', 'in', 'the', 'past', '6', 'build', 'anot  
her', 'page', "for'sponsoring", "info'and", 'put', 'prices', 'on',  
'that', 'page', 'remove', 'all', 'pricing', 'information', 'from',  
'the', 'home', 'page', 'i', 'feel', 'that', 'the', 'background',  
'is', 'a', 'little', 'too', 'bold', 'and', 'busy', 'for', 'the',  
'text', 'i', 'also', 'believe', 'that', 'the', 'text', 'is', 'to  
o', 'large', 'which', 'makes', 'it', 'difficult', 'to', 'read', 'q  
uickly', 'and', 'forces', 'the', 'reader', 'to', 'scroll', 'down',  
'unnecessarily', 'i', 'noticed', 'some', 'spelling', 'errors', 'an  
d', 'i', 'think', 'that', 'a', 'link', 'to', 'the', 'classifieds',  
'site', 'should', 'be', 'provided', 'and', 'online', 'payments',  
'should', 'be', 'accepted', 'a', 'site', 'that', 'sells', 'advertis  
ing', 'should', 'have', 'advertisements', 'on', 'it', 'this', 'i  
s', 'a', 'very', 'clear', 'site', 'with', 'nothing', 'interferin  
g', 'with', 'the', 'message', 'i', 'did', 'not', 'like', 'the', 'b  
ackground', 'colour', 'however', 'that', 'is', 'personal', 'it',  
'did', 'not', 'detract', 'from', 'the', 'information', 'i', 'was',  
'tempted', 'to', 'sign', 'up', 'for', 'the', 'newsletter', 'but',  
'would', 'have', 'liked', 'a', 'link', 'to', 'see', 'a', 'curren  
t', 'issue', 'there', 'was', 'an', 'error', 'in', 'the', 'wordin  
g', 'a', 'word', 'missed', 'which', 'needs', 'correction', 'and',  
'i', 'think', 'the', 'fonts', 'could', 'be', 'smaller', 'overall',  
'a', 'non', 'confusing', 'site', 'which', 'makes', 'a', 'nice', 'c  
hange', 'cheers', 'could', 'use', 'a', 'better', 'background', 'an  
d', 'the', 'fonts', 'are', 'very', 'large', 'there', 'also', 'ar  
e', 'errors', 'in', 'the', 'following', 'paragraphs', 'first', 'co  
m', 'first', 'serve', 'and', 'to', 'place', 'a', 'sponsor', 'adver  
tisement', 'send', 'your', 'to', 'my', 'email', 'a', 'single', 'pa  
ge', 'site', 'it', 'is', 'necessary', 'to', 'subscribe', 'to', 'th  
e', "webmaster's", 'newsletter', 'to', 'see', 'what', "he's", 'doi  
ng', 'and', 'it', "doesn't", 'seem', 'to', 'me', 'to', 'be', 'a',  
'way', 'to', 'get', 'people', 'to', 'visit', 'i', "wouldn't", 'fo  
r', 'example', 'he', 'claims', 'to', 'have', 'lots', 'of', 'tidbit



s', 'of', 'information', 'that', 'he', 'says', 'we', 'probably',  
"didn't", 'know', 'and', 'this', 'is', 'possible', 'but', 'in', 'm  
y', 'opinion', 'he', 'would', 'be', 'better', 'served', 'if', 'h  
e', 'at', 'least', 'put', 'some', 'of', 'the', 'things', 'out', 't  
here', 'for', 'all', 'to', 'see', 'when', 'the', 'appetite', 'so',  
'to', 'speak', 'if', 'he', 'want', 'people', 'to', 'subscribe', 'a  
s', 'it', 'is', 'i', 'would', 'not', 'bother', 'what', 'does', 'on  
e', 'expect', 'from', 'a', 'site', 'like', 'netsbestinfo', 'some',  
'useful', 'resources', 'and', 'some', 'useful', 'tips', 'and', 'al  
so', 'some', 'forms', 'of', 'easy', 'advertisement', 'on', 'the',  
'net', 'but', 'what', 'we', 'get', 'here', 'is', 'a', 'newslette  
r', 'with', 'the', 'owner', 'whose', 'email', 'reads', 'damorgarj  
r', 'yahoo', 'com', 'asking', 'us', 'to', 'subscribe', 'us', 'to',  
'his', 'newsletter', 'for', 'a', 'free', '4', 'line', 'ad', 'he',  
'also', 'tells', 'of', 'paid', 'category', 'of', 'advertisements',  
'this', 'is', 'all', 'we', 'get', 'from', 'a', 'site', 'which', 'h  
as', 'a', 'grand', 'title', 'even', 'the', 'information', 'about',  
'the', 'newsletter', 'is', 'hardly', 'impressive', 'and', 'is', 'p  
resented', 'in', 'about', '35', 'to', '40', 'points', 'size', 'whi  
ch', 'gets', 'difficult', 'to', 'read', 'a', 'neat', 'enough', 'si  
te', 'but', 'the', 'background', 'could', 'be', 'a', 'little', 'ha  
rd', 'on', 'the', 'eyes', 'there', 'is', 'only', 'really', 'one',  
'problem', 'with', 'this', 'page', 'its', 'just', 'an', 'advertise  
ment', 'for', 'a', 'newsletter', 'no', 'scratch', 'that', 'its',  
'an', 'advertisement', 'to', 'place', 'free', 'ads', 'in', 'a', 'n  
ewsletter', 'a', 'bold', 'enough', 'move', 'perhaps', 'but', 'i',  
'learned', 'hardly', 'anything', 'about', 'the', 'newsletter', 'it  
self', 'and', 'immediately', 'started', 'worrying', 'about', 'gett  
ing', 'a', 'flood', 'of', 'ads', 'to', 'my', 'email', 'account',  
'so', 'i', "didn't", 'even', 'subscribe', 'presumably', "you'd",  
'want', 'to', 'get', 'people', 'to', 'sign', 'up', 'so', 'might',  
'i', 'suggest', 'splitting', 'the', 'page', 'into', 'the', 'newsle  
tter', 'itself', 'perhaps', 'a', 'sample', 'issue', 'a', 'privac  
y', 'policy', 'and', 'a', 'promise', 'not', 'to', 'drown', 'in',  
'ads', 'and', 'then', 'click', 'for', 'more', 'info', 'on', 'you  
r', 'free', 'ads', '\_\_\_\_\_ ', 'vo  
te', 'on', 'your', 'favorite', 'website', 'design', 'help', 'out',  
'the', 'winner', 'of', 'the', 'free', 'website', 'redesign', 'by',  
'voting', 'for', 'your', 'favorite', 'you', 'can', 'help', 'out',  
'teddy', 'at', 'links', '4', 'profit', 'com', 'by', 'taking', 'a',  
'look', 'at', 'his', 'site', 'then', 'checking', 'out', 'the', 'th  
ree', 'new', 'layouts', 'jana', 'of', 'akkabay', 'designs', 'akkab  
ay', 'com', 'has', 'designed', 'specifically', 'for', 'him', 'afte  
r', "you've", 'visited', 'all', 'three', 'vote', 'for', 'your', 'f  
avorite', 'to', 'make', 'this', 'as', 'easy', 'as', 'possible', 'f  
or', 'you', 'just', 'click', 'on', 'the', 'e', 'mail', 'address',  
'that', 'matches', 'your', 'choice', 'you', 'do', 'not', 'need',  
'to', 'enter', 'any', 'information', 'in', 'the', 'subject', 'or',  
'body', 'of', 'the', 'message', 'i', 'have', 'included', 'a', 'not  
e', 'from', 'jana', 'and', 'the', 'links', 'to', "teddy's", 'curre  
nt', 'site', 'along', 'with', 'the', 'three', 'new', 'designs', 'f  
rom', 'jana', 'the', 'pages', 'have', 'been', 'created', 'as', 'no  
n', 'frame', 'pages', 'although', 'with', 'minor', 'modification',  
'the', 'pages', 'could', 'be', 'adapted', 'for', 'use', 'in', 'a',

'frames', 'environment', 'please', 'take', 'a', 'look', 'at', 'th  
e', 'existing', 'site', 'http', 'www', 'links', '4', 'profit', 'co  
m', 'here', 'are', 'the', '3', 'redesigns', 'vote', 'for', 'this',  
'design', 'design1', 'aeopublishing', 'com', 'vote', 'for', 'thi  
s', 'design', 'design', '2', 'aeopublishing', 'com', 'vote', 'fo  
r', 'this', 'design', 'design', '3', 'aeopublishing', 'com', 'yo  
u', 'will', 'have', 'all', 'of', 'this', 'week', 'to', 'vote', 'th  
rough', 'june', '29', 'and', "we'll", 'list', 'the', 'favorite',  
'and', 'most', 'voted', 'for', 'layout', 'next', 'week', 'teddy',  
'of', 'course', 'will', 'be', 'able', 'to', 'choose', 'his', 'favo  
rite', 'and', 'colors', 'font', 'style', 'size', 'backgrounds', 't  
extures', 'etc', 'can', 'all', 'easily', 'be', 'changed', 'on', 't  
he', 'layout', 'that', 'he', 'likes', 'free', 'website', 're', 'de  
signs', 'and', 'original', 'graphics', 'are', 'provided', 'to', 'f  
ln', 'showcase', 'winners', 'courtesy', 'of', 'akkabay', 'design  
s', 'http', 'akkabay', 'com', 'if', 'you', 'have', 'any', 'questio  
ns', 'about', 'how', 'this', 'works', 'or', 'how', 'you', 'can',  
'participate', 'please', 'email', 'amy', 'at', 'moderator', 'moder  
ator', 'amy', 'mossel', 'posting', 'myinput', 'aeopublishing', 'co  
m', 'send', 'posts', 'and', 'questions', 'or', 'your', 'answers',  
'to', 'myinput', 'aeopublishing', 'com', 'please', 'send', 'sugges  
tions', 'and', 'comments', 'to', 'moderator', 'aeopublishing', 'co  
m', 'to', 'change', 'your', 'subscribed', 'address', 'send', 'bot  
h', 'new', 'and', 'old', 'address', 'to', 'moderator', 'aeopublish  
ing', 'com', 'see', 'below', 'for', 'unsubscribe', 'instructions',  
'copyright', '2001', 'aeopublishing', 'end', 'of', 'your', 'member  
ship', 'exchange', 'this', 'email', 'has', 'been', 'sent', 'to',  
'jm', 'netnoteinc', 'com', 'at', 'your', 'request', 'by', 'your',  
'membership', 'newsletter', 'services', 'visit', 'our', 'subscript  
ion', 'center', 'to', 'edit', 'your', 'interests', 'or', 'unsubscr  
ibe', 'http', 'ccprod', 'roving', 'com', 'roving', 'd', 'jsp',  
'p', 'oo', 'id', 'bd', '7', 'n', '7877', 'a', '4', 'dfur', '67',  
'm', 'bd', '7', 'n', '7877', 'charset', 'iso', '8859', '1', 'you  
r', 'membership', 'exchange', 'issue', '423', 'june', '28', '200  
1', 'this', 'email', 'was', 'sent', 'to', 'jm', 'netnoteinc', 'co  
m', 'at', 'your', 'request', 'by', 'your', 'membership', 'newslett  
er', 'services', 'visit', 'our', 'subscription', 'center', 'to',  
'edit', 'your', 'interests', 'or', 'unsubscribe', 'view', 'our',  
'privacy', 'policy', 'powered', 'by']  
['sup', 'er', 'cha', 'rge', 'your', 'm', 'an', 'hood', 'today',  
'jvbe', 'kfbtyra', 'xes', 'hello', 'generic', 'and', 'super', 'via  
gra', 'cialis', 'available', 'online', 'most', 'trusted', 'onlin  
e', 'source', 'cialis', 'or', 'super', 'viag', 'takes', 'affect',  
'right', 'away', 'lasts', '24', '36', 'hours', 'for', 'super', 'vi  
agra', 'click', 'here', 'generic', 'viagra', 'costs', '60', 'les  
s', 'save', 'a', 'lot', 'of', 'money', 'for', 'viagra', 'click',  
'here', 'both', 'products', 'shipped', 'discretely', 'to', 'your',  
'door', 'not', 'interested', 'dycmpf', 's', 'uuz', 'biwven']  
['dicine', 'site', 'on', 'the', 'net', 'hello', 'nothing', 'sharp  
ens', 'sight', 'like', 'envy', 'nature', 'should', 'have', 'been',  
'pleased', 'to', 'have', 'made', 'this', 'age', 'miserable', 'with  
out', 'making', 'it', 'also', 'ridiculous', 'searching', 'for', 'm  
edication', 'on', 'the', 'net', 'milestone', 'anheuser', 'we', 'v  
e', 'got', 'anything', 'you', 'will', 'ever', 'want', 'pibrochs',

'treasonous', 'free', 'claiis', 'sample', 'with', 'any', 'order', 'arthur', 'convincible', 'tithable', 'pilocystic', 'initializes', 'there', 'are', 'only', 'two', 'ways', 'of', 'getting', 'on', 'i n', 'the', 'world', 'by', "one's", 'own', 'industry', 'or', 'by', 'the', 'stupidity', 'of', 'others', 'my', 'conscience', 'aches', 'but', "it's", 'going', 'to', 'lose', 'the', 'fight', 'peace', 'i s', 'the', 'first', 'thing', 'the', 'angels', 'sang']

['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',  
'consistent', 'innovation', 'may', 'sound', 'like', 'an', 'oxymoro  
n', 'we', 'pride', 'ourselves', 'on', 'consistently', 'outpacing',  
'our', 'peers', 'with', 'innovative', 'ideas', 'how', 'do', 'you',  
'think', 'enron', 'can', 'maintain', 'its', 'edge', 'into', 'the',  
'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',  
'free', 'to', 'contract', 'my', 'team', 'for', 'questions', 'i',  
'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',  
'volume', 'managment', 'group', 'will', 'take', 'over', 'the', 're  
sponsibility', 'of', 'allocating', 'the', 'entex', 'contracts', 'h  
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',  
"thu's", 'primary', 'account', 'especially', 'during', 'these', 'f  
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',  
'back', 'office', 'would', 'meet', 'at', 'some', 'point', 'in', 't  
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',  
'let', 'me', 'know', 'if', 'this', 'is', 'the', 'one', 'you', 'wou  
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  
4', '99', '06', '29', 'am', 'kevin', 'g', 'moore', '12', '14', '9  
9', '06', '27', 'am', 'to', 'shirley', 'crensshaw', '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', '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', 'free linksnetwork', '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',  
"you've", 'said', 'before', 'be', 'believable', "don't", 'exaggera  
te', 'mislead', 'stretch', 'or', 'distort', 'the', 'truth', '18',  
'be', 'specific', "don't", 'generalize', 'your', 'information', 'b  
ut', 'rather', 'be', 'exact', 'instead', 'of', 'over', '100', 'tip  
s', 'for', 'losing', 'weight', 'use', '124', 'tips', 'for', 'losin  
g', 'weight', 'by', 'generalizing', 'information', 'it', 'create  
s', 'doubt', 'and', 'questions', 'in', 'the', "reader's", 'mind',  
'what', 'am', 'i', 'really', 'getting', 'here', 'does', 'he', 'eve  
n', 'know', 'when', 'you', 'use', 'specific', 'information', 'th  
e', 'reader', 'begins', 'to', 'think', 'this', 'person', 'must',  
'have', 'counted', 'i', 'know', 'exactly', 'what', 'i', 'can', 'ex  
pect', 'platitudes', 'and', 'generalities', 'roll', 'off', 'the',  
'human', 'understanding', 'like', 'water', 'from', 'a', 'duck', 'w  
rote', 'claudé', 'hopkins', 'in', 'his', 'classic', 'book', 'scien  
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  
eir', 'point', 'of', 'view', 'ask', 'yourself', 'why', "wouldn't",  
'i', 'buy', 'this', 'then', 'address', 'that', 'in', 'your', 'sale  
s', 'letter', 'remove', 'anything', 'that', 'would', 'keep', 'th  
e', 'reader', 'from', 'making', 'the', 'purchase', '20', 'use', 't  
estimonials', 'to', 'boost', 'your', 'sales', 'share', 'actual',  
'excerpts', 'from', 'what', 'your', 'current', 'customers', 'are',  
'saying', 'about', 'your', 'product', 'or', 'service', 'many', 'we  
bsites', 'have', 'an', 'entire', 'section', 'or', 'even', 'a', 'se  
parate', 'page', 'that', 'has', 'endorsements', 'and', 'compliment  
s', 'listed', 'satisfied', 'customers', 'remove', 'some', 'of', 't  
he', 'doubt', 'in', 'the', 'mind', 'of', 'the', 'reader', 'if', 't  
hese', 'people', 'have', 'found', 'a', 'lot', 'of', 'value', 'an  
d', 'benefit', 'in', 'the', 'product', 'then', 'i', 'probably', 'w  
ill', 'too', 'especially', 'effective', 'are', 'testimonials', 'fr  
om', 'respected', 'well', 'known', 'authorities', 'within', 'you  
r', 'target', 'field', '21', 'use', 'headlines', 'over', 'and', 'o  
ver', 'throughout', 'the', 'sales', 'letter', 'a', 'headline', "is  
n't", 'just', 'relegated', 'to', 'the', 'beginning', 'of', 'your',  
'ad', 'copy', 'use', 'them', 'frequently', 'but', "don't", 'overus  
e', 'a', 'well', 'placed', 'headline', 're', 'grabs', 'the', "read  
er's", 'attention', 'brings', 'them', 'deeper', 'into', 'the', 'le  
tter', 'and', 'readies', 'them', 'for', 'the', 'next', 'paragrap  
h', 'you', 'will', 'want', 'to', 'spend', 'as', 'much', 'time', 'w  
orking', 'on', 'your', 'headlines', 'as', 'you', 'do', 'the', 'ent  
ire', 'sales', 'letter', 'they', 'are', 'that', 'important', '22',  
'avoid', 'asking', 'stupid', 'questions', "wouldn't", 'you', 'lik  
e', 'to', 'make', '1', '000', '000', 'a', 'year', "doesn't", 'tha  
t', 'sound', 'great', 'would', 'you', 'like', 'to', 'be', 'as', 's  
uccessful', 'as', 'i', 'am', 'avoid', 'any', 'question', 'that',  
'insults', 'the', 'intelligence', 'of', 'your', 'reader', 'or', 'm  
akes', 'them', 'feel', 'like', 'they', 'are', 'inferior', '23', 'o  
ffer', 'a', 'freebie', 'even', 'if', 'the', 'customer', "doesn't",  
'buy', 'if', 'the', 'customer', 'decides', 'he', 'or', 'she', 'is

n't", 'going', 'to', 'make', 'a', 'purchase', 'then', 'you', 'want', 'to', 'follow', 'up', 'with', 'them', 'later', 'to', 'try', 'to', 'influence', 'them', 'to', 'buy', 'in', 'the', 'future', 'by', 'offering', 'a', 'free', 'item', 'you', 'can', 'request', 'their', 'email', 'address', 'in', 'order', 'to', 'obtain', 'the', 'freebie', 'by', 'doing', 'this', 'you', 'can', 'now', 'follow', 'up', 'with', 'the', 'customer', 'for', 'a', 'potential', 'future', 'sale', 'additionally', 'you', 'can', 'continue', 'the', 'sales', 'process', 'by', 'having', 'your', 'ad', 'copy', 'banners', 'flyers', 'etc', 'within', 'the', 'free', 'item', 'and', 'of', 'course', 'if', 'your', 'free', 'item', 'is', 'a', 'high', 'quality', 'useful', 'product', 'or', 'service', 'which', 'impresses', 'the', 'customer', 'they', 'probably', 'will', 'be', 'back', 'as', 'a', 'customer', 'soon', '24', 'use', 'bonuses', 'to', 'overwhelm', 'the', 'reader', 'one', 'of', 'the', 'things', 'that', 'i', 'have', 'found', 'very', 'effective', 'in', 'writing', 'sales', 'letters', 'is', 'to', 'include', 'bonus', 'items', 'that', 'out', 'value', 'the', 'actual', 'product', 'i', 'am', 'offering', 'ginsu', 'made', 'this', 'one', 'famous', 'they', 'were', 'selling', 'a', 'set', 'of', 'steak', 'knives', 'but', 'before', 'the', 'commercial', 'was', 'finished', 'you', 'had', 'so', 'many', 'bonus', 'items', 'on', 'the', 'table', 'it', 'was', 'hard', 'to', 'refuse', 'make', 'sure', 'you', 'provide', 'quality', 'bonuses', 'and', 'not', 'some', 'worthless', 'outdated', 'junk', 'that', 'damages', 'the', 'credibility', 'of', 'your', 'main', 'offer', '25', 'use', 'connective', 'phrases', 'like', 'but', 'wait', "there's", 'more', 'and', 'but', "that's", 'not', 'all', 'these', 'phrases', 'effectively', 'lead', 'the', 'reader', 'from', 'one', 'paragraph', 'to', 'the', 'next', 'particularly', 'when', 'the', 'next', 'paragraph', 'is', 'a', 'bullet', 'list', 'of', 'benefits', 'or', 'leads', 'into', 'bonus', 'items', 'again', 'the', 'idea', 'is', 'more', 'and', 'more', 'value', 'and', 'benefits', 'to', 'the', 'reader', '26', 'always', 'include', 'a', 'deadline', 'by', 'including', 'a', 'deadline', 'you', 'create', 'a', 'sense', 'of', 'urgency', 'in', 'the', 'mind', 'of', 'the', 'customer', 'if', 'i', "don't", 'order', 'within', '24', 'hours', 'then', 'i', "won't", 'get', 'the', 'bonuses', 'oh', 'no', 'there', 'are', 'only', '10', 'items', 'remaining', "i've", 'got', 'to', 'hurry', 'let', 'the', 'customer', 'know', 'what', 'they', 'will', 'be', 'missing', 'out', 'on', 'if', 'they', "don't", 'make', 'the', 'deadline', 'remember', 'they', "won't", 'miss', 'out', 'on', 'your', 'products', 'or', 'bonuses', 'they', 'will', 'miss', 'out', 'on', 'all', 'of', 'the', 'benefits', 'of', 'your', 'products', 'deadlines', 'are', 'very', 'effective', 'every', 'sales', 'letter', 'should', 'have', 'one', '27', 'tell', 'them', 'exactly', 'how', 'to', 'order', 'be', 'clear', 'as', 'to', 'the', 'order', 'process', 'point', 'them', 'towards', 'the', 'order', 'link', 'tell', 'them', 'what', 'methods', 'you', 'offer', 'i', 'e', 'credit', 'cards', 'checks', 'etc', 'make', 'this', 'process', 'as', 'simple', 'and', 'clear', 'as', 'can', 'be', 'if', 'it', 'takes', 'more', 'than', '2', 'steps', 'most', 'people', "won't", 'continue', '28', 'explain', 'when', 'the', 'product', 'will', 'be', 'delivered', 'how', 'quickly', 'will', 'the', 'order', 'be', 'processed', 'when', 'will', 'the', 'order', 'be', 'available', 'let', 'the', 'customer', 'know', 'exactly', 'what', 'they',

'can', 'expect', 'when', 'they', 'place', 'their', 'order', 'the', 'more', 'specific', 'you', 'can', 'be', 'here', 'the', 'better', 'let', 'them', 'know', 'that', 'you', 'have', 'a', 'system', 'in', 'place', 'operators', 'are', 'standing', 'by', 'their', 'order', 'will', 'be', 'handled', 'properly', 'tell', 'them', '29', 'offer', 'a', 'money', 'back', 'guarantee', 'take', 'away', 'their', 'last', 'reason', 'to', 'hold', 'back', 'offer', 'a', 'no', 'questions', 'asked', '30', 'day', 'guarantee', 'most', 'people', 'may', 'not', 'realize', 'this', 'but', 'in', 'most', 'cases', "it's", 'the', 'law', 'of', 'the', 'land', 'you', 'are', 'required', 'to', 'give', 'them', 'their', 'money', 'back', 'if', 'they', 'are', 'not', 'satisfied', 'with', 'the', 'product', 'or', 'service', 'since', "it's", 'the', 'law', 'anyway', 'why', 'not', 'make', 'it', 'a', 'benefit', 'let', 'them', 'know', 'that', 'they', 'are', 'purchasing', 'your', 'product', 'or', 'service', 'risk', 'free', '30', 'instruct', 'them', 'to', 'respond', 'immediately', 'many', 'people', 'just', 'need', 'to', 'read', 'those', 'words', 'act', 'now', 'order', 'today', 'click', 'here', 'to', 'instantly', 'place', 'your', 'order', "you've", 'got', 'them', 'this', 'far', 'now', 'tell', 'them', 'what', 'you', 'want', 'them', 'to', 'do', 'get', 'them', 'to', 'act', 'fast', 'have', 'you', 'ever', 'heard', 'a', 'mail', 'order', 'commercial', 'on', 'television', 'that', "didn't", 'prompt', 'the', 'viewer', 'to', 'order', 'right', 'way', '31', 'include', 'a', 'post', 'script', 'people', 'will', 'always', 'read', 'the', 'p', 's', 'always', 'in', 'fact', 'the', 'p', 's', 'is', 'one', 'of', 'the', 'most', 'important', 'parts', 'of', 'your', 'sales', 'letter', 'why', 'because', 'in', 'many', 'cases', 'the', 'visitor', 'at', 'your', 'website', 'will', 'scroll', 'immediately', 'down', 'to', 'the', 'end', 'of', 'your', 'page', 'to', 'see', 'how', 'much', 'it', 'is', 'going', 'to', 'cost', 'a', 'p', 's', 'is', 'a', 'perfect', 'place', 'to', 'recap', 'your', 'offer', 'so', 'when', 'they', 'see', 'your', 'price', 'tag', 'they', 'will', 'also', 'see', 'a', 'very', 'detailed', 'description', 'of', 'what', 'they', 'will', 'receive', 'for', 'their', 'money', 'use', 'your', 'p', 's', 'to', 'restate', 'your', 'offer', 'in', 'detail', '32', 'include', 'a', 'second', 'post', 'script', 'you', 'better', 'believe', 'if', 'they', 'read', 'the', 'first', 'p', 's', 'they', 'will', 'read', 'a', 'p', 'p', 's', 'use', 'this', 'post', 'script', 'to', 'remind', 'them', 'of', 'the', 'deadline', 'or', 'offer', 'another', 'bonus', 'or', 'point', 'out', 'some', 'compelling', 'factor', 'that', 'would', 'make', 'them', 'want', 'to', 'order', 'i', 'guarantee', 'you', 'they', 'will', 'read', 'it', 'use', 'these', '32', 'tips', 'and', 'i', 'guarantee', 'you', 'that', 'you', 'will', 'see', 'a', 'significant', 'increase', 'in', 'the', 'amount', 'of', 'responses', 'you', 'receive', 'from', 'your', 'sales', 'letters', 'in', 'fact', 'it', 'would', 'be', 'impossible', 'for', 'your', 'responses', 'to', 'not', 'improve', 'copyright', '2000', 'jimmy', 'd', 'brown', 'all', 'rights', 'reserved', 'worldwide', 'about', 'the', 'author', 'jimmy', 'd', 'brown', 'is', 'helping', 'average', 'people', 'get', 'out', 'of', 'the', 'rat', 'race', 'and', 'earn', 'a', 'full', 'time', 'living', 'online', 'for', 'more', 'details', 'on', 'firing', 'your', 'boss', 'and', 'creating', 'your', 'own', 'internet', 'wealth', 'visit', 'us', 'right', 'now', 'at', 'special', 'offer', 'join', 'the', 'profits', 'vault

t', 'through', 'the', 'above', 'link', 'and', 'email', 'me', 'you  
r', 'receipt', 'and', 'you', 'can', 'have', 'a', 'free', 'bonus',  
'copy', 'of', 'the', 'terrific', 'manual', 'how', 'to', 'profit',  
'from', 'free', 'ebooks', 'guaranteed', 'which', 'i', 'sell', 'a  
t', 'member', 'showcase', 'examine', 'carefully', 'those', 'with',  
'email', 'addresses', 'included', 'will', 'trade', 'links', 'wit  
h', 'you', 'you', 'are', 'encouraged', 'to', 'contact', 'them', 't  
here', 'are', 'many', 'ways', 'to', 'build', 'a', 'successful', 'b  
usiness', 'just', 'look', 'at', 'these', 'successful', 'sites', 'p  
rograms', 'other', 'members', 'are', 'involved', 'in', 'affiliate  
s', 'of', 'the', 'world', 'top', 'rated', 'affiliate', 'programs',  
'excellent', 'business', 'opportunities', 'great', 'marketing', 'r  
esources', 'and', 'free', 'advertising', 'for', 'you', 'visit', 't  
he', 'site', 'to', 'trade', 'links', 'http', 'www', 'affiliates',  
'uk', 'com', 'trade', 'links', 'adrianbold', 'affiliates', 'uk',  
'com', 'get', 'insane', 'amounts', 'of', 'traffic', 'to', 'your',  
'website', 'purchase', '10', '000', 'guaranteed', 'visitors', 't  
o', 'your', 'site', 'and', 'receive', '5', '000', 'free', 'more',  
'traffic', 'more', 'money', 'less', 'than', '2', 'cents', 'a', 'vi  
sitor', 'space', 'is', 'limited', 'order', 'now', 'http', 'www',  
'freepicklotto', 'com', 'trade', 'links', 'businessopps', 'aol',  
'com', 'celebration', 'sale', '99', '00', 'on', 'casinos', 'sports  
betting', 'sites', 'lingerie', 'stores', 'gift', 'stores', 'adul  
t', 'sites', 'toy', 'stores', 'mention', 'ad', 'bmlm', '99', 'to',  
'receive', 'this', 'special', 'sale', 'price', 'order', 'now', 'ht  
tp', 'www', 'cyberopps', 'com', 'bmlm', '99', 'just', 'been', 'rel  
eased', 'internet', 'marketing', 'guru', 'corey', 'rudl', 'has',  
'just', 'released', 'a', 'brand', 'new', 'version', 'of', 'his',  
'1', 'best', 'selling', 'internet', 'marketing', 'course', 'the',  
'insider', "secret's", 'to', 'marketing', 'your', 'business', 'o  
n', 'the', 'internet', 'a', 'must', 'have', 'so', "don't", 'hesita  
te', 'visit', 'http', 'www', 'admindr', 'com', 'c', 'cgi', 'start  
bgmlmezzine', 'we', 'have', 'a', '260', 'page', 'catalog', 'with',  
'over', '3000', 'gift', 'items', 'for', 'men', 'women', 'childre  
n', 'a', 'gift', 'for', 'everyone', 'we', 'show', '100', 'gift',  
'items', 'on', 'our', 'web', 'site', 'alone', 'with', 'the', 'cata  
log', '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', 'stop', 'smoking', 'free', 'lesson',  
'discover', 'the', 'secret', 'to', 'stopping', 'smoking', 'to', 'm  
aster', 'these', 'powerful', 'techniques', 'come', 'to', 'http',  
'www', 'breath', 'of', 'life', 'net', 'for', 'your', 'free', 'less  
on', 'act', 'now', 'p', 's', 'tell', 'someone', 'you', 'care', 'ab  
out', 'trade', 'links', 'jturco', '3', 'hotmail', 'com', 'if', 'yo  
u', 'have', 'a', 'product', 'service', 'opportunity', 'or', 'quali  
ty', 'merchandise', 'that', 'appeals', 'to', 'people', 'worldwid  
e', 'reach', 'your', 'targeted', 'audience', 'for', 'a', 'fractio  
n', 'of', 'what', 'other', 'large', 'newsletters', 'charge', 'yo  
u', 'can', 'exhibit', 'your', 'website', 'here', 'and', 'trade',  
'links', 'for', 'only', '8', 'cpm', 'compare', 'that', 'to', 'th  
e', 'industry', 'average', 'of', '10', '15', 'cpm', 'why', 'becaus  
e', 'as', 'a', 'valuable', 'member', 'we', 'want', 'you', 'to', 'b  
e', 'successful', 'order', 'today', 'showcases', 'are', 'limited',



'and', 'published', 'on', 'a', 'first', 'come', 'first', 'serve', 'basis', 'for', 'our', 'secure', 'order', 'form', 'click', 'here', 'http', 'bannersgomlm', 'com', 'ezine', 'are', 'you', 'ready', 'for', 'your', '15', 'minutes', 'of', 'fame', 'one', 'of', 'the', 'items', 'we', 'would', 'like', 'to', 'include', 'in', 'community', 'commentary', "we'll", 'need', 'from', 'you', 'here', 'is', 'your', 'chance', 'to', 'showcase', 'your', 'marketing', 'strategies', 'and', 'i', 'need', 'to', 'hear', 'from', 'everyone', 'who', 'would', 'like', "to'blow", 'your', 'own', "horn'and", 'be', 'in', 'the', 'spotlight', 'on', 'center', 'stage', "it's", 'a', 'great', 'way', 'to', 'enjoy', 'recognition', 'and', 'publicity', 'for', 'yourself', 'and', 'your', 'business', 'and', 'will', 'allow', 'all', 'members', 'to', 'duplicate', 'your', 'success', 'and', 'avoid', 'the', "same'setbacks", 'please', 'include', 'a', 'little', 'background', 'history', 'how', 'you', 'got', 'your', 'start', 'a', 'problem', 'you', 'have', 'had', 'and', 'how', 'you', 'solved', 'it', 'your', 'greatest', 'success', 'and', 'any', 'advice', 'you', 'have', 'for', 'someone', 'beginning', 'to', 'market', 'online', 'send', 'your', 'information', 'to', 'submit', 'aeopublishing', 'com', "with'center", "stage'in", 'the', 'subject', 'block', 'win', 'a', 'free', 'ad', 'in', 'community', 'commentary', 'to', 'keep', 'this', 'interesting', 'how', 'about', 'this', 'every', 'month', "we'll", 'draw', 'a', 'name', 'from', 'the', 'replies', 'and', 'that', 'person', 'will', 'win', 'one', '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', '06', '29', '01', 'no', 'right', 'or', 'wrong', 'answers', 'and', 'just', 'by', 'answering', 'you', 'are', 'entered', 'to', 'win', 'a', 'showcase', 'ad', 'free', 'what', 'is', 'the', 'goal', 'of', 'your', 'website', 'sell', 'mailto', 'one', 'aeopublishing', 'com', 'get', 'leads', 'mailto', 'two', 'aeopublishing', 'com', 'build', 'branding', 'mailto', 'three', 'aeopublishing', 'com', 'provide', 'information', 'mailto', 'four', 'aeopublishing', 'com', 'other', 'mailto', 'five', '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', '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', '6', 'w', '8', 'clu', '67', 'm', 'bd', '7', 'n', '7877', 'charset', 'iso', '8859', '1', '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', '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']

['take', 'the', 'reins', 'become', 'your', 'employer', 'substantial', 'profit', 'processing', 'money', 'judgments', 'from', 'anywhere', 'control', 'when', 'you', 'want', 'to', 'work', 'a', 'substantial', 'number', 'of', 'our', 'members', 'earn', '5', '000', 'us', 'to', '12', '000', 'us', 'per', 'mo', 'outstanding', 'customer', 'support', 'and', 'assistance', 'here', 'for', 'more', 'info', 'while', 'the', 'couple', 'were', 'apparently', 'examining', 'the', 'strange', 'device', 'rob', 'started', 'to', 'his', 'feet', 'and', 'walked', 'toward', 'them', 'the', 'crowd', 'fell', 'back', 'at', 'his', 'approach', 'but', 'the', 'man', 'and', 'the', 'girl', 'were', 'so', 'interested', 'that', 'they', 'did', 'not', 'notice', 'him', 'he', 'was', 'still', 'several', 'paces', 'away', 'when', 'the', 'girl', 'put', 'out', 'her', 'finger', 'and', 'touched', 'the', 'indicator', 'on', 'the', 'dial', 'discontinue', 'orange', 'stad', 'and', 'then', 'mail', 'stop', '1', '200', 'b', 'followed', 'by', 'a', 'rub', 'a', 'to', "rob's", 'horror', 'and', 'consternation', 'the', 'big', 'turk', 'began', 'to', 'rise', 'slowly', 'into', 'the', 'air', 'while', 'a', 'howl', 'of', 'fear', 'burst', 'from', 'the', 'crowd', 'but', 'the', 'boy', 'made', 'a', 'mighty', 'spring', 'and', 'caught', 'the', 'turk', 'by', 'his', 'foot', 'clinging', 'to', 'it', 'with', 'desperate', 'tenacity', 'while', 'they', 'both', 'mounted', 'steadily', 'upward', 'until', 'they', 'were', 'far', 'above', 'the', 'city', 'of', 'the', 'desert', 'the', 'big', 'turk', 'screamed', 'pitifully', 'at', 'first', 'and', 'then', 'actually', 'fainted', 'away', 'from', 'fright', 'rob', 'was', 'much', 'frightened', 'on', 'his', 'part', 'for', 'he', 'knew', 'if', 'his', 'hands', 'slipped', 'from', 'their', 'hold', 'he', 'would', 'fall', 'to', 'his', 'death']

['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', 'rea'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  
r', 'ultimate', 'goals', 'and', 'realize', 'that', 'probably', 'th  
e', 'most', 'valuable', 'powerful', 'key', 'to', 'your', 'succes  
s', 'is', 'you', 'that', 'may', 'be', 'the', 'most', 'incredible',  
'secret', 'we', 'ever', 'uncover', 'in', 'our', 'lifetime', 'and',  
'trust', 'me', 'that', 'brick', 'wall', "won't", 'ever', 'get', 'i  
n', 'your', 'way', 'again', 'unless', 'you', 'let', 'it', 'talk',  
'about', 'simple', 'bryan', 'is', 'a', 'veteran', 'internet', 'con  
sultant', 'author', 'internet', 'success', 'strategist', 'markete  
r', 'he', 'publishes', 'mega', 'success', 'com', 'chronicles', 't  
o', 'over', '11', '500', 'subscribing', 'members', 'authors', 'art  
icles', 'which', 'appear', 'all', 'over', 'the', 'net', 'and', 'he  
lps', 'hundreds', 'of', 'wealth', 'hungry', 'people', 'in', 'thei  
r', 'journey', 'to', 'internet', 'success', 'bryan', 'is', 'also',  
'director', 'of', 'his', 'no', 'bs', 'guerrilla', 'internet', 'mar  
keting', 'group', 'at', 'http', 'com', 'a', 'fantastic', 'new', 'j  
oint', 'venture', 'partners', 'program', 'for', 'that', 'site', 'b  
ryan', 'hall', 'is', 'a', 'founding', 'member', 'and', 'the', 'dev  
elopment', 'consultant', 'for', 'the', 'prestigious', 'icop', 't  
m', 'at', 'http', 'www', 'i', 'cop', 'org', '1016', 'htm', 'you',  
'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',  
'them', 'there', 'are', 'many', 'ways', 'to', 'build', 'a', 'succe  
ssful', 'business', 'just', 'look', 'at', 'these', 'successful',  
'sites', 'programs', 'other', 'members', 'are', 'involved', 'in',  
'get', 'insane', 'amounts', 'of', 'traffic', 'to', 'your', 'websit  
e', 'purchase', '10', '000', 'guaranteed', 'visitors', 'to', 'you  
r', 'site', 'and', 'receive', '5', '000', 'free', 'more', 'traffi  
c', 'more', 'money', 'less', 'than', '2', 'cents', 'a', 'visitor',  
'space', 'is', 'limited', 'order', 'now', 'http', 'www', 'freepick  
lotto', 'com', 'trade', 'links', 'businessopps', 'aol', 'com', 'st  
op', 'smoking', 'free', 'lesson', 'discover', 'the', 'secret', 't  
o', 'stopping', 'smoking', 'to', 'master', 'these', 'powerful', 't  
echniques', 'come', 'to', 'http', 'www', 'breath', 'of', 'life',  
'net', 'for', 'your', 'free', 'lesson', 'act', 'now', 'p', 's', 't  
ell', 'someone', 'you', 'care', 'about', 'trade', 'links', 'jsturc  
o', '3', 'hotmail', 'com', 'celebration', 'sale', '99', '00', 'o  
n', 'casinos', 'sportsbetting', 'sites', 'lingerie', 'stores', 'gi  
ft', 'stores', 'adult', 'sites', 'toy', 'stores', 'mention', 'ad',  
'bmlm', '99', 'to', 'receive', 'this', 'special', 'sale', 'price',  
'order', 'now', 'http', 'www', 'cyberopps', 'com', 'bmlm', '99',  
'affiliates', 'of', 'the', 'world', 'top', 'rated', 'affiliate',  
'programs', 'excellent', 'business', 'opportunities', 'great', 'ma  
rketing', 'resources', 'and', 'free', 'advertising', 'for', 'you',  
'visit', 'the', 'site', 'to', 'trade', 'links', 'http', 'www', 'af  
filiates', 'uk', 'com', 'trade', 'links', 'adrianbold', 'affiliate  
s', 'uk', 'com', 'just', 'been', 'released', 'internet', 'marketin  
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  
minder', 'com', 'c', 'cgi', 'startbgmlmezzine', 'we', 'have', 'a',  
'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  
ou', 'have', 'a', 'product', 'service', 'opportunity', 'or', 'qual  
ity', 'merchandise', 'that', 'appeals', 'to', 'people', 'worldwid  
e', 'reach', 'your', 'targeted', 'audience', 'for', 'a', 'fractio  
n', 'of', 'what', 'other', 'large', 'newsletters', 'charge', 'yo  
u', 'can', 'exhibit', 'your', 'website', 'here', 'and', 'trade',  
'links', 'for', 'only', '8', 'cpm', 'compare', 'that', 'to', 'th  
e', 'industry', 'average', 'of', '10', '15', 'cpm', 'why', 'becaus  
e', 'as', 'a', 'valuable', 'member', 'we', 'want', 'you', 'to', 'b  
e', 'successful', 'order', 'today', 'showcases', 'are', 'limited',  
'and', 'published', 'on', 'a', 'first', 'come', 'first', 'serve',  
'basis', 'for', 'our', 'secure', 'order', 'form', 'click', 'here',  
'http', 'bannersgomlm', 'com', 'ezine', 'win', 'a', 'free', 'ad',  
'in', 'community', 'commentary', 'to', 'keep', 'this', 'interestin  
g', 'how', 'about', 'this', 'every', 'month', "we'll", 'draw',  
'a', 'name', 'from', 'the', 'replies', 'and', 'that', 'person', 'w  
ill', 'win', 'one', 'sponsorship', 'showcase', 'ad', 'in', 'the',  
'community', 'commentary', 'for', 'free', "that's", 'a', 'value',  
'of', 'over', '700', '00', 'respond', 'to', 'each', 'weekly', 'sur  
vey', 'and', 'increase', 'your', 'chances', 'to', 'win', 'with',  
'four', 'separate', 'entries', 'question', 'of', 'the', 'week', '0  
7', '06', '01', 'no', 'right', 'or', 'wrong', 'answers', 'and', 'j  
ust', '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', '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

```

-----
-----
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.

```