```
nannnangnannnan-vtr
   17122 NodeManager
   16514 DataNode
   16371 NameNode
17866 Jps
   hannnah@hannnah-VirtualBox:~$ hdfs fsck tweets.txt
   WARNING: HADOOP PREFIX has been replaced by HADOOP HOME. Using value
   Connecting to namenode via http://localhost:9870/fsck?ugi=hannnah&pa
    FSCK started by hannnah (auth:SIMPLE) from /127.0.0.1 for path /user
    PDT 2018
    Status: HEALTHY
     Number of data-nodes: 1
    Number of racks:
                                    1
     Total dirs:
                                    0
     Total symlinks:
                                    0
    Replicated Blocks:
    Total size:
                    482508953 B
    Total files:
     Total blocks (validated):
                                    4 (avg. block size 120627238 B)
    Minimally replicated blocks:
                                    4 (100.0 %)
     Over-replicated blocks:
                                    0 (0.0 %)
     Under-replicated blocks:
                                    0 (0.0 %)
     Mis-replicated blocks:
                                    0 (0.0 %)
    Default replication factor:
                                    1
     Average block replication:
                                    1.0
    Missing blocks:
                                    0
    Corrupt blocks:
                                    0
    Missing replicas:
                                    0 (0.0 %)
   4 blocks
 3.
        HDFS: Number of write oper
Job Counters
        Killed map tasks=1
        Launched map tasks=4
        Launched reduce tasks=1
        Data-local map tasks=4
```

4 block means 4 map task

```
Job Counters

Killed reduce tasks=1

Launched map tasks=4

Launched reduce tasks=3

Data-local map tasks=4
```

```
hannnah@hannnah-VirtualBox:~/MapReduce$ hadoop fs -ls tweetOut3

Found 4 items
-rw-r--r-- 1 hannnah supergroup 0 2018-03-12 17:41 tweetOut3/_SUCCESS
-rw-r--r-- 1 hannnah supergroup 417619 2018-03-12 17:41 tweetOut3/part-r-0
0000
-rw-r--r-- 1 hannnah supergroup 412974 2018-03-12 17:41 tweetOut3/part-r-0
0001
-rw-r--r-- 1 hannnah supergroup 412174 2018-03-12 17:41 tweetOut3/part-r-0
0002
```

Run using

Hadoop 3.0.0 Java 1.8.4

TO COMPILE

cd into any Question * file and execute the following commands (WHERE HADOOP_HOME is the path to your Hadoop location)

```
javac -classpath `$HADOOP_HOME/bin/hadoop classpath` *.java jar cvf [CLASS NAME].jar *.class
```

Default .jar include with each file is mr.jar

QUESTIONS 5 AND 6

Creates intermediate file "outputfile" which will need to be deleted between runs.

\$HADOOP_HOME/bin/hadoop jar [CLASSNAME].jar Driver tweets.txt [OUTPUTFILE 1]

QUESTION 7

Creates intermediate files "tweetCountFile", "joinFile", and "countFile" which will need to be deleted between runs

\$HADOOP_HOME/bin/hadoop jar [CLASSNAME].jar Driver tweets.txt users.txt [OUTPUTFILE 1]

Retrieve results with

hadoop fs -get [OUTPUTFILE 1]/part-r-00000