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# **Section A**

1.

mkdir HW1
cd HW1
wget http://www.gutenberg.org/files/98/98-0.txt -O story.txt

2.

split story.txt sample\_ mkdir subfiles mv sample\_\* subfiles

3.

mkdir subfiles/sample1 mkdir subfiles/sample2 mkdir subfiles/tmp

3a.

cd subfiles/sample1 echo franklin >.franklin echo zhao >.zhao

3b.

ls -a cat .franklin cat .zhao

3c.

#### cd ../tmp

No, because the two "tmp" directories are in different paths. If we want to find the "hidden" directory, we need to go to "/tmp" then list (ls) the files and directories. (the new "tmp" was created in the root directory)

4.

tar -cf subfiles.tar sample\_\*
gzip subfiles.tar

304572/(47041+51055+49699+47139+50727+47205+50366+48380+49431+53207+49815+52894+48093+49254+46499+49096+14434) = 0.3787 So we just achieved a 37.87% compression.

5.

```
mkdir tar_zip
mv subfiles.tar.gz tar_zip
cd tar_zip
gzip -d subfiles.tar.gz
tar -xf subfiles.tar
```

Retrieve zip files from CentOS7:

scp -r -P 1111 fzhao@localhost:HW1/subfiles/tar\_zip ~/Desktop

# **Section B**

1.

#### vi unixlsAwesome1.txt

(press i)

(write the text)

(press <esc>)

:wq

2.

cat unixlsAwesome1.txt > unixlsAwesome2.txt

3.

cat unixIsAwesome2.txt

4.

cat -n unixIsAwesome2.txt | head -n -2

5.

cd subfiles

5a.

### vi sample\_aa

Reach the end of the file: G\$ Reach the top of the file: 1G

5b.

head -n30 sample\_aa > outputb5b.txt

Retrieve outputb5b.txt from CentOS7:

Open terminal in Mac, then:

scp -P 1111 fzhao@localhost:HW1/subfiles/outputb5b.txt ~/Desktop/

5c.

Approach 1: press <esc> back to the command mode, and then use the following command:

:q!

Apporach 2: press <esc> back to the command mode, and iteratively press u until there shows "Already at oldest change" at the bottom.

Approach 3: press <esc> back to the command mode, and then use the following command:

:e!

6.

chmod 754 sample\_aa

7.

ping amazon.com