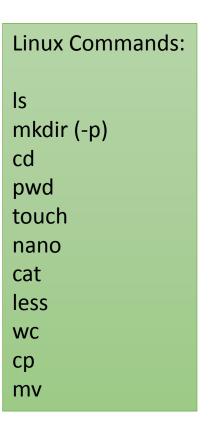
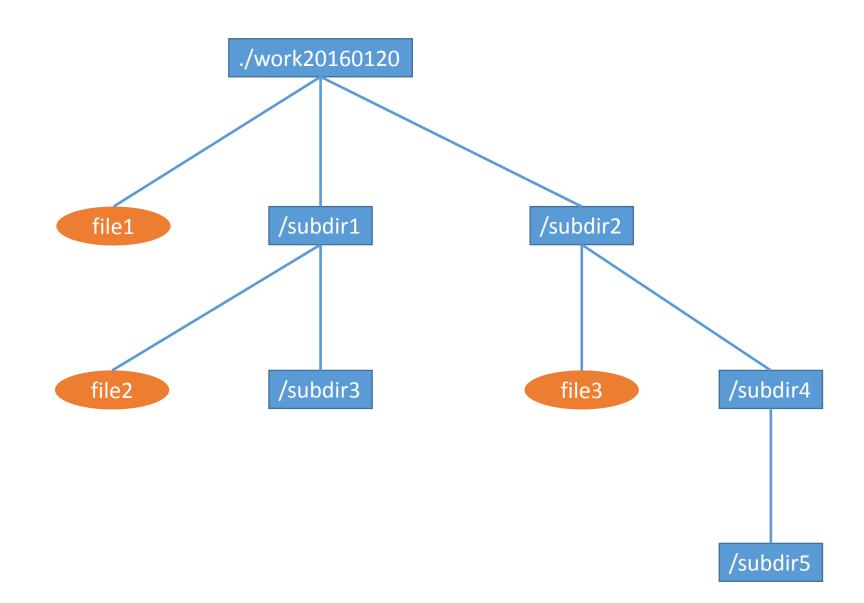
## Practice 1: Follow me to build a local file system on your local machine:





## Practice 2: Follow me to submit jobs to zcluster and then use grep, awk, and sort on your jobs:

```
Job submission steps:

1. ssh s_200@zcluster.rcc.uga.edu
2. make_escratch
3. cd /escratch4/s_200/s_200_Jan_20
4. cp -r /tmp/gacrc_Linux/serials/ ./
5. cd serials/
6. qsub -q rcc-30d sub.sh
7. qstat
```

## Usage of grep, awk, and sort utilities:

```
ls -l | more
ls -l | grep ".sh"
ps aux | awk '{if($1=="s_200") print $0}' | more
qstat | wc -l
qstat -u "*" | awk '{print $4}' | sort | less
qstat -u "*" | grep ' s_200 ' | grep ' r '| awk 'BEGIN{n=0} {n++} END{printf "I have
%d jobs running on queue\n", n}'
```