ECS30
Chengeng Xiao
SID: 913186040
Assignment 4
Linux

1, (*5 points*) I have a file in my directory named –r (that is a "–" followed by the letter "r"). I want to rename it dashr. What command should I type to do this? Give the full command, not just the name of the command.

The command is: mv ./"-r" "dashr"

```
[[adamsx97@pc18 ~]$ ls ./"-r"
./-r
[[adamsx97@pc18 ~]$ mv ./"-r" "dashr"
[[adamsx97@pc18 ~]$ ls
a               core        echo.c  getint    Music      scf.c      Videos
A+B             dashr       ep      getint.c  Pictures   temp2      vis
A+B.c           Desktop     ep.c    io        prime      Templates  vis.c
abc.c           Documents   exfc.c  ioccc.c   prime.c    test       x
assignment1.c   Downloads   fact    msq1      Public     test.c     y
assignmnet1     echo        fact.c  msq1.c    scf        users      z
[adamsx97@pc18 ~]$
```

2, (*5 points*) I want to make the file *libprog.a* in my home directory available to everyone so they can copy it, but I do not want anyone to be able to see any other files in my home directory. How should I set the "other" bits of my directory's protection to do this?

"chmod o-rx ." decline the authority of all others to read and execute all files.

"chmod o+rx libprog.a" allows the access of other users to read and execute the file so they can see and copy it.

```
[[adamsx97@pc18 ~]$ ls
a              core        echo.c   getint    Music      scf.c      Videos
A+B            dashr       ep       getint.c  Pictures   temp2      vis
A+B.c          Desktop     ep.c     io        prime      Templates  vis.c
abc.c          Documents   exfc.c   ioccc.c   prime.c    test       x
assignment1.c  Downloads   fact     msq1      Public     test.c     y
assignmnet1    echo        fact.c   msq1.c    scf        users      z
[[adamsx97@pc18 ~]$ vi libprog.a
[[adamsx97@pc18 ~]$ ls libprog.a
libprog.a
[[adamsx97@pc18 ~]$ chmod o-rx .
[[adamsx97@pc18 ~]$ chmod o+rx libprog.a
[adamsx97@pc18 ~]$ 
-rw------- 1 adamsx97 users    145 Nov  3 21:08 ioccc.c
-rw----r-x 1 adamsx97 users      4 Nov 18 10:30 libprog.a
-rwx------ 1 adamsx97 users   8560 Oct 13 19:34 msq1
```

3，(*10 points*) The file */usr/share/dict/words* contains a list of English words and abbreviations, one per line. How many words and abbreviations does it have? How many have the trigram "abc" in them? Remember, you must show the command(s) you use to get this information.

Count words in file words: wc –w words

Count string abc's appear-time in file words:

    fgrep –o "abc" words | wc -l

```
[[adamsx97@pc18 dict]$ ls words
words
[[adamsx97@pc18 dict]$ wc -w words
479828 words
[[adamsx97@pc18 dict]$ fgrep "abc" words
abc
abcess
abcissa
abcoulomb
Babcock
babcock
crabcatcher
dabchick
dabchicks
nabcheat
[[adamsx97@pc18 dict]$ fgrep -o "abc" words | wc -l
10
[adamsx97@pc18 dict]$ 
```