```
#1.1
cd~
cd data_demo
In -s data demo link /work/ese-xied/data demo
ls -F
#1.2
echo $cd ~
[ese-xied@login03 data_demo]$ echo cd ~
cd /work/ese-xied
#1.3
cd molecules
touch test.pdb
cubane.pdb ethane.pdb methane.pdb molecules octane.pdb pentane.pdb propane.pdb test.pdb
#1.4
cd..
cd data/elements
find . -type f -print | wc -1
[ese-xied@login03 elements]$ find . -type f -print
103
#1.5
cd..
cd pdb
1s
diff ethane.pdb ethanol.pdb
#1.6
cd~
cd data demo/writing/data
```

grep -o 'But she' LittleWomen.txt | wc -l

```
[ese-xied@login03 pdb]$ cd ~
 [ese-xied@login03 ~]$ cd data demo/writing/data
[ese-xied@login03 data]$ grep -o 'But she' LittleWomen.txt | wc -l
#1.7
cd~
cd data demo/data
du -sh
[ese-xied@login03 data]$ cd ~
[ese-xied@login03 ~]$ cd data demo/data
[ese-xied@login03 data]$ du -sh
721K
#1.8
cd..
cp -r writing writing new
                     nk@ molecules/ north-pacific-gyre/ notes* pizza.cfg* solar.pdf* thesis/ writing/ writing
cd writing new
zip -r writing neww.zip ./*
 [ese-xied@login03 data_demo]$ cd writing_new
 [ese-xied@login03 writing_new]$ zip -r writing_neww.zip ./*
   adding: data/ (stored 0%)
   adding: data/one.txt (deflated 53%)
   adding: data/LittleWomen.txt (deflated 61%)
   adding: data/two.txt (deflated 59%)
   adding: haiku.txt (deflated 29%)
   adding: thesis/ (stored 0%)
   adding: thesis/empty-draft.md (stored 0%) adding: tools/ (stored 0%) adding: tools/stats (stored 0%) adding: tools/old/ (stored 0%)
   adding: tools/old/oldtool (stored 0%)
   adding: tools/format (deflated 13%)
unzip -o -d /writing neww.zip
```

```
[ese-xied@login03 writing_new]$ unzip -o -d /writing_neww.zip
UnZip 6.00 of 20 April 2009, by Info-ZIP. Maintained by C. Spieler. Send
bug reports using <a href="http://www.info-zip.org/zip-bug.html">http://www.info-zip.org/zip-bug.html</a>; see README for details.
Usage: unzip [-Z] [-opts[modifiers]] file[.zip] [list] [-x xlist] [-d exdir]
  Default action is to extract files in list, except those in xlist, to exdir; file[.zip] may be a wildcard. -Z => ZipInfo mode ("unzip -Z" for usage).
         extract files to pipe, no messages
                                                                    -l list files (short format)
   -f freshen existing files, create none
-u update files, create if necessary
-v list verbosely/show version info
                                                                    -t test compressed archive data-z display archive comment only
                                                                    -T timestamp archive to latest
   -x exclude files that follow (in xlist)
                                                                    -d extract files into exdir
modifiers:
   -n never overwrite existing files
                                                                    -q quiet mode (-qq => quieter)
   -o overwrite files WITHOUT prompting
                                                                    -a auto-convert any text files
   -j junk paths (do not make directories)-U use escapes for all non-ASCII Unicode
                                                                     -aa treat ALL files as text
                                                                    -UU ignore any Unicode fields
   -C match filenames case-insensitively -L make (some) names lowercase
-X restore UID/GID info -V retain VMS version numbers
-K keep setuid/setgid/tacky permissions -M pipe through "more" pager
-O CHARSET specify a character encoding for DOS, Windows and OS/2 archives
-I CHARSET specify a character encoding for UNIX and other archives
See "unzip -hh" or unzip.txt for more help. Examples:
  unzip data1 -x joe => extract all files except joe from zipfile data1.zip unzip -p foo | more => send contents of foo.zip via pipe into program more
   unzip -fo foo ReadMe => quietly replace existing ReadMe if archive file newer
```

## #1.9 chmod 710 writing\_new

```
[ese-xied@login03 data_demo]$ chmod 710 writing_new
[ese-xied@login03 data_demo]$ ll
total 134
drwxr-xr-x 2 ese-xied ese-ouycc
drwxrwxrwx 1 ese-xied ese-ouycc
lrwxrwxrwx 1 ese-xied ese-ouycc
drwxr-xr-x 2 ese-xied ese-ouycc
drwxr-xr-x 2 ese-xied ese-ouycc
drwxr-xr-x 3 ese-xied ese-ouycc
-rwxr-xr-x 1 ese-xied ese-ouycc
-rwxr-xr-x 1 ese-xied ese-ouycc
-rwxr-xr-x 1 ese-xied ese-ouycc
drwxr-xr-x 2 ese-xied ese-ouycc
-rwxr-xr-x 1 ese-xied ese-
```

## #1.10

## history 10

```
[ese-xied@login03 data_demo]$ history 10
 368 ls
 369
      chmod 710 writing newww
 370
      chmod 710 writing new
 371
 372
      chmod 710 II writing new
      chmod 70 writing_new II
 373
      chmod 710 writing_new II
  374
 375
      chmod 710 writing new
 376
      ш
 377
      history 10
```

```
#2
nano loop.sh
for i in $(cat pdb.list);
do
du -x $i
```

done

```
GNU nano 2.3.1

for i in $(cat pdb.list);
do
    du -x $i

done
```

## ./loop.sh

```
aldrin.pdb
ammonia.pdb
benzaldehyde.pdb
camphene.pdb
cinnamaldehyde.pdb
citronellal.pdb
codeine.pdb
cubane.pdb
cyclobutane.pdb
cyclobutane.pdb
cyclopropane.pdb
ethane.pdb
ethane.pdb
cattic-acid.pdb
lactic-acid.pdb
lactose.pdb
loop.pdb
lasd.pdb
menthol.pdb
methane.pdb
methane.pdb
lmethane.pdb
lmethol.pdb
lmethane.pdb
lmethane.pdb
lmethane.pdb
lmethane.pdb
lmethane.pdb
lmethane.pdb
lmethane.pdb
lmorphine.pdb
lmorphine.pdb
lmorphine.pdb
lmorthindrone.pdb
cotane.pdb
lpprine.pdb
lpprine.pdb
lpprine.pdb
lpprine.pdb
lpropane.pdb
```