

# Homework #2-exercise

-1.

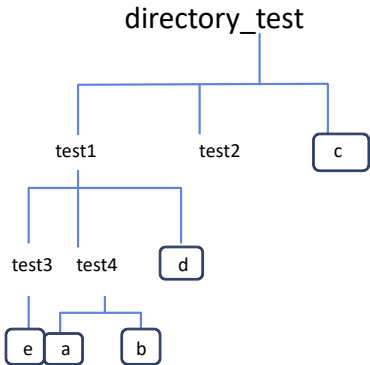
```
jonahyun@jonahyun-virtual-machine...  
jonahyun@jonahyun-virtual-machine:~$ cd ~  
jonahyun@jonahyun-virtual-machine:~$ mkdir directory_test  
jonahyun@jonahyun-virtual-machine:~$ cd directory_test  
jonahyun@jonahyun-virtual-machine:~/directory_test$
```

-2.

```
jonahyun@jonahyun-virtual-machine:~/directory_test$ mkdir test1  
jonahyun@jonahyun-virtual-machine:~/directory_test$ mkdir test2  
jonahyun@jonahyun-virtual-machine:~/directory_test$ mkdir ~/directory_test/test1/test  
jonahyun@jonahyun-virtual-machine:~/directory_test$ mkdir ~/directory_test/test1/test4n-virtual-  
jonahyun@jonahyun-virtual-machine:~/directory_test$ mkdir ~/directory_test/test1/test  
$  
mkdir: cannot create directory '/home/jonahyun/directory_test/test1/test4': File exists  
jonahyun@jonahyun-virtual-machine:~/directory_test$ ss
```

## Homework #2-exercise

-3-(1). 박스 친 것이 파일 박스 안 친것이 디렉토리



-3-(2).

"cd ~/directory\_test"는 현재 사용자의 홈 디렉토리에서 "directory\_test"라는 하위 디렉토리로 이동하려고 시도하고,  
"cd ~directory\_test"는 현재 디렉토리에서 "directory\_test"라는 하위 디렉토리로 이동하려고 시도합니다.

## Homework #2-exercise

-4-(1).

```
jonahyun@jonahyun-virtual-machine:~/directory_test/test1$ cd ..
jonahyun@jonahyun-virtual-machine:~/directory_test$ ls
c test1 test2
jonahyun@jonahyun-virtual-machine:~/directory_test$ ls -a
. .. c test1 test2
jonahyun@jonahyun-virtual-machine:~/directory_test$ ls -al
total 16
drwxrwxr-x 4 jonahyun jonahyun 4096 3월 27 20:25 .
drwxr-x--- 16 jonahyun jonahyun 4096 3월 27 20:12 ..
-rw-rw-r-- 1 jonahyun jonahyun 0 3월 27 20:25 c
drwxrwxr-x 4 jonahyun jonahyun 4096 3월 27 20:25 test1
drwxrwxr-x 2 jonahyun jonahyun 4096 3월 27 20:16 test2
jonahyun@jonahyun-virtual-machine:~/directory_test$
```

-4-(2).

'ls': 현재 디렉토리의 파일과 디렉토리만을 나열한다.

'ls-a': 현재 디렉토리의 모든 파일과 디렉토리를 나열한다. 숨겨진 파일과 디렉토리도 포함한다.

'ls-al': 현재 디렉토리의 모든 파일과 디렉토리를 자세히 나열한다.

(디렉토리의 소유자, 그룹, 권한, 크기, 수정시간 등)

또한 -a의 옵션으로 숨겨진 파일과 디렉토리도 포함한다.

## Homework #2-exercise

-5-(1).

```
jonahyun@jonahyun-virtual-machine:~/directory_test/test1$ pwd
/home/jonahyun/directory_test/test1
jonahyun@jonahyun-virtual-machine:~/directory_test/test1$ cd ..
jonahyun@jonahyun-virtual-machine:~/directory_test$ pwd
/home/jonahyun/directory_test
jonahyun@jonahyun-virtual-machine:~/directory_test$ cd test1/test4
jonahyun@jonahyun-virtual-machine:~/directory_test/test1/test4$ pwd
/home/jonahyun/directory_test/test1/test4
jonahyun@jonahyun-virtual-machine:~/directory_test/test1/test4$ cd ../../
jonahyun@jonahyun-virtual-machine:~/directory_test$ pwd
/home/jonahyun/directory_test
jonahyun@jonahyun-virtual-machine:~/directory_test$ cd ~/directory_test/test1
jonahyun@jonahyun-virtual-machine:~/directory_test/test1$ pwd
/home/jonahyun/directory_test/test1
jonahyun@jonahyun-virtual-machine:~/directory_test/test1$
```

-4-(2).

- .. : 현재 디렉토리의 부모 디렉토리
- ~ : 현재 사용자의 홈 디렉토리

# Homework #2-exercise

-6-(1)

```
jonahyun@jonahyun-virtual-machine:~/directory_test/test1$ cd ~/directory_test
jonahyun@jonahyun-virtual-machine:~/directory_test$ tar cvf test1.tar test1
test1/
test1/d
test1/test4/
test1/test4/b
test1/test4/a
test1/test3/
test1/test3/e
jonahyun@jonahyun-virtual-machine:~/directory_test$ tar zcvf test1.tar.gz test1
test1/
test1/d
test1/test4/
test1/test4/b
test1/test4/a
test1/test3/
test1/test3/e
jonahyun@jonahyun-virtual-machine:~/directory_test$ tar jcvf test1.tar.bz2 test1
test1/
test1/d
test1/test4/
test1/test4/b
test1/test4/a
test1/test3/
test1/test3/e
jonahyun@jonahyun-virtual-machine:~/directory_test$ zip test1_1.zip test1
  adding: test1/ (stored 0%)
jonahyun@jonahyun-virtual-machine:~/directory_test$ zip -r test1.zip test1
  adding: test1/ (stored 0%)
  adding: test1/d (stored 0%)
  adding: test1/test4/ (stored 0%)
  adding: test1/test4/b (stored 0%)
  adding: test1/test4/a (stored 0%)
  adding: test1/test3/ (stored 0%)
  adding: test1/test3/e (stored 0%)
jonahyun@jonahyun-virtual-machine:~/directory_test$ ls -al
total 44
drwxrwxr-x  4 jonahyun jonahyun 4096 3월 27 21:19 .
drwxr-x--- 16 jonahyun jonahyun 4096 3월 27 20:12 ..
-rw-rw-r--  1 jonahyun jonahyun   0 3월 27 20:25 c
drwxrwxr-x  4 jonahyun jonahyun 4096 3월 27 20:25 test1
-rw-rw-r--  1 jonahyun jonahyun 162 3월 27 21:19 test1_1.zip
-rw-rw-r--  1 jonahyun jonahyun 10240 3월 27 21:16 test1.tar
-rw-rw-r--  1 jonahyun jonahyun 223 3월 27 21:18 test1.tar.bz2
-rw-rw-r--  1 jonahyun jonahyun 220 3월 27 21:17 test1.tar.gz
-rw-rw-r--  1 jonahyun jonahyun 1070 3월 27 21:19 test1.zip
drwxrwxr-x  2 jonahyun jonahyun 4096 3월 27 20:16 test2
jonahyun@jonahyun-virtual-machine:~/directory_test$
```

-6-(2)

zip test1\_1.zip test1: test1 디렉토리만 압축한다.

‘zip -r test1.zip test1은 test1 디렉토리내 그 안에 있는 모든 파일과 디렉토리를 압축한다.

따라서 두번째의 압축파일이 용량이 더 크다.

## Homework #2-exercise

-6-(3)

test1\_1.zip : 162

test1.tar: 10240

test1.tar.bz2: 223

test1.tar.gz: 220

test1.zip:1070

따라서 용량이 가장 적은 test1\_1.zip  
이 가장 최적의  
파일이다.

-7-(1)

test1 에는 여러개의 파일이 있는  
즉, 비어있는 파일이 아니다.

rmdir이라는 명령어는 비어있는  
파일만 지워주기 때문에 제대로  
작동하지 않는다.

# Homework #2

-8-(1)

```
jonahyun@jonahyun-virtual-machine:~/directory_test$ cat > menu
coffee
americano
latte
mocha
single
double
jonahyun@jonahyun-virtual-machine:~/directory_test$ cat -n menu
 1 coffee
 2 americano
 3 latte
 4 mocha
 5 single
 6 double
jonahyun@jonahyun-virtual-machine:~/directory_test$ head -n 2 menu
coffee
americano
jonahyun@jonahyun-virtual-machine:~/directory_test$ tail -n 3 menu
mocha
single
double
jonahyun@jonahyun-virtual-machine:~/directory_test$
```

# Homework #2

-9-(1)

- 파란색은 디렉토리 검은색은 파일

```
jonahyun@jonahyun-virtual-machine:~/directory_test$ cd ~
jonahyun@jonahyun-virtual-machine:~$ mkdir copy_test
jonahyun@jonahyun-virtual-machine:~$ cd copy_test
jonahyun@jonahyun-virtual-machine:~/copy_test$ touch a b c d e
jonahyun@jonahyun-virtual-machine:~/copy_test$ mkdir 1 2 3 3/3
jonahyun@jonahyun-virtual-machine:~/copy_test$ mkdir -p 4/4
jonahyun@jonahyun-virtual-machine:~/copy_test$ ls -R
.:
1 2 3 4 a b c d e

./1:

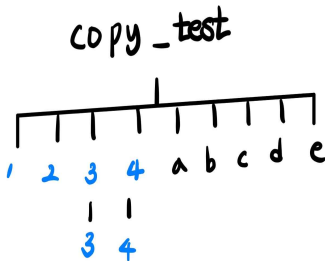
./2:

./3:
3

./3/3:

./4:
4

./4/4:
jonahyun@jonahyun-virtual-machine:~/copy_test$
```





## Homework #2-exercise

-9-(2)

- 파란색은 디렉토리 검은색은 파일

```
jonahyun@jonahyun-virtual-machine:~/copy_test$ cp a x
jonahyun@jonahyun-virtual-machine:~/copy_test$ mv b y
jonahyun@jonahyun-virtual-machine:~/copy_test$ cp c 1
jonahyun@jonahyun-virtual-machine:~/copy_test$ mv d 2
jonahyun@jonahyun-virtual-machine:~/copy_test$ cp e 3/e
jonahyun@jonahyun-virtual-machine:~/copy_test$ mv e 3/f
jonahyun@jonahyun-virtual-machine:~/copy_test$ ls -R
.:
1 2 3 4 a c x y

./1:
c

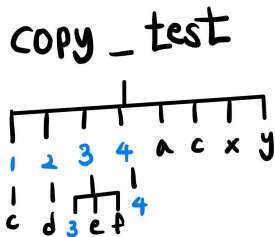
./2:
d

./3:
3 e f

./3/3:

./4:
4

./4/4:
jonahyun@jonahyun-virtual-machine:~/copy_test$ s
```



## Homework #2-exercise

-9-(3)

```
jonahyun@jonahyun-virtual-machine:~/copy_test$ cp 1 5
cp: -r not specified; omitting directory '1'
jonahyun@jonahyun-virtual-machine:~/copy_test$ cp -r 1 5
jonahyun@jonahyun-virtual-machine:~/copy_test$ cp -r 1 4
jonahyun@jonahyun-virtual-machine:~/copy_test$ mv 1 6
jonahyun@jonahyun-virtual-machine:~/copy_test$ mv 2 6
jonahyun@jonahyun-virtual-machine:~/copy_test$ ls -R
.:
3 4 5 6 a c x y

./3:
3 e f

./3/3:

./4:
1 4

./4/1:
c

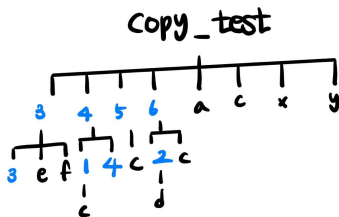
./4/4:

./5:
c

./6:
2 c

./6/2:
d
```

- 이미 있는 파일에는 밑에 종속되어 들어가는 규칙이 있다!
- 파란색은 디렉토리 검은색은 파일



# Homework #2-exercise

-10-(1)

```
jonahyun@jonahyun-virtual-machine:~/copy_test$ find . -print
.
./c
./5
./5/c
./6
./6/c
./6/2
./6/2/d
./y
./3
./3/e
./3/3
./3/f
./a
./x
./4
./4/1
./4/1/c
./4/4
```

-10-(2)

```
jonahyun@jonahyun-virtual-machine:~/copy_test$ find . -name c -print
./c
./5/c
./6/c
./4/1/c
```

## Homework #2-exercise

-10-(3)

-이 명령어는 현재 디렉토리부터 시작하여 이름이 "c"인 모든 파일을 찾아서 삭제하는 명령어이다.

## Homework #2-Problems

-1-(1)

=> groupadd family

: family 라는 그룹을 추가한다.

=> useradd wendy -g family

: wendy라는 사용자를 family 그룹에 추가한다.

=> useradd peterpan -g family

: peterpan이라는 사용자를 family 그룹이다.

-1-(2)

```
root@jonahyun-virtual-machine:~# tail /etc/group
peterpan:x:1004:
hook:x:1005:
/home/wendy:x:1006:
wendy:x:1007:
class1:x:1008:tester1,tester3,tester2
class3:x:1009:tester3
class2:x:1010:tester2,tester3
tester2:x:2002:
tester3:x:2005:
family:x:2006:wendy,peterpan
```

# Homework #2-Problems

2.

```
jonahyung@jonahyun-virtual-machine:~/AntExample1$ ls -R
.:
build  src  WebContent

./src:
com

./src/com:
vaannila

./src/com/vaannila:
domain  service  web

./src/com/vaannila/domain:
User

./src/com/vaannila/service:
UserService  UserServiceImpl

./src/com/vaannila/web:
UserController

./WebContent:
META-INF  redirect  WEB-INF

./WebContent/META-INF:
MANIFEST

./WebContent/WEB-INF:
jsp  lib

./WebContent/WEB-INF/jsp:
userForm  userSuccess

./WebContent/WEB-INF/lib:
dispatcher-servlet  web
```

# Homework #2-Problems

-3.

```
jonahyun@jonahyun-virtual-machine:~$ tar cvf AntExample1.tar AntExample1
AntExample1/
AntExample1/build
AntExample1/AntExample1.tar
AntExample1/WebContent/
AntExample1/WebContent/redirect
AntExample1/WebContent/META-INF/
AntExample1/WebContent/META-INF/MAINIFEST
AntExample1/WebContent/WEB-INF/
AntExample1/WebContent/WEB-INF/lib/
AntExample1/WebContent/WEB-INF/lib/web
AntExample1/WebContent/WEB-INF/lib/dispatcher-servlet
AntExample1/WebContent/WEB-INF/jsp/
AntExample1/WebContent/WEB-INF/jsp/userSuccess
AntExample1/WebContent/WEB-INF/jsp/userform
AntExample1/src/
AntExample1/src/com/
AntExample1/src/com/vaannila/
AntExample1/src/com/vaannila/service/
AntExample1/src/com/vaannila/service/UserService
AntExample1/src/com/vaannila/service/UserServiceImpl
AntExample1/src/com/vaannila/web/
AntExample1/src/com/vaannila/web/UserController
AntExample1/src/com/vaannila/domain/
AntExample1/src/com/vaannila/domain/User
```

## Homework #2-Problems

-4-(1).

AntExample1 파일 위치에서  
mkdir exclusion\_directory 명령어  
를 친다.

```
jonahyun@jonahyun-virtual-machine:~/AntExample1$ mkdir exclusion_directory
```

-4-(2).

```
jonahyun@jonahyun-virtual-machine: $ tar cvf test1.tar AntExample1/exclusion_directory  
AntExample1/exclusion_directory/
```



# Homework #2-Problems

-4-(3).

```
jonahyun@jonahyun-virtual-machine:~$ tar --exclude=exclusion_directory -cvf test2.tar AntExample1
AntExample1/
AntExample1/test1.tar
AntExample1/build
AntExample1/AntExample1.tar
AntExample1/WebContent/
AntExample1/WebContent/redirect
AntExample1/WebContent/META-INF/
AntExample1/WebContent/META-INF/MAINIFEST
AntExample1/WebContent/WEB-INF/
AntExample1/WebContent/WEB-INF/lib/
AntExample1/WebContent/WEB-INF/lib/web
AntExample1/WebContent/WEB-INF/lib/dispatcher-servlet
AntExample1/WebContent/WEB-INF/jsp/
AntExample1/WebContent/WEB-INF/jsp/userSuccess
AntExample1/WebContent/WEB-INF/jsp/userform
AntExample1/src/
AntExample1/src/com/
AntExample1/src/com/vaannila/
AntExample1/src/com/vaannila/service/
AntExample1/src/com/vaannila/service/UserService
AntExample1/src/com/vaannila/service/UserServiceImpl
AntExample1/src/com/vaannila/web/
AntExample1/src/com/vaannila/web/UserController
AntExample1/src/com/vaannila/domain/
AntExample1/src/com/vaannila/domain/User
```

## Homework #2-Problems

-5.

```
jonahyun@jonahyun-virtual-machine:~$ zip myarchive.zip myfile_1.txt myfile_2.txt
  adding: myfile_1.txt (stored 0%)
  adding: myfile_2.txt (stored 0%)
jonahyun@jonahyun-virtual-machine:~$ zip myarchive.zip -u myfile_3.txt
  adding: myfile_3.txt (stored 0%)
jonahyun@jonahyun-virtual-machine:~$ zip -sf myarchive.zip
zip I/O error: No such file or directory
zip error: File not found or no read permission (myarchive.zip)
jonahyun@jonahyun-virtual-machine:~$ zip -sf myarchive.zip
Archive contains:
  myfile_1.txt
  myfile_2.txt
  myfile_3.txt
Total 3 entries (0 bytes)
```