

1. ให้สร้าง Directory x1 ใน Home Directory และ x2 ใน x1 แล้วสร้างไฟล์ 0 byte ชื่อ y1 ใน x1 และไฟล์ที่มีรหัส นศ ชื่อ y2 ใน x2

คำสั่ง : cd

mkdir x1

mkdir x1/x2

cd x1

touch y1

cd x2

echo "65070084" > y2

```
ubuntucomor@comordemo:~$ ls
x1
ubuntucomor@comordemo:~$ cd x1
ubuntucomor@comordemo:~/x1$ ls
x2 y1
ubuntucomor@comordemo:~/x1$ cd x2
ubuntucomor@comordemo:~/x1/x2$ ls
y2
ubuntucomor@comordemo:~/x1/x2$ cat y2
65070084
ubuntucomor@comordemo:~/x1/x2$ _
```

2. นับจำนวนไฟล์ทั้งหมดใน Directories ดังนี้ (ไม่รวมใน Subdirectories หรือ Hidden Files)

คำสั่ง : ls -l | grep '^-' | wc -l

Home Directory

```
ubuntucomor@comordemo:~$ ls -l | grep '^-' | wc -l
0
ubuntucomor@comordemo:~$ ls -la
.  .bash_history  .bashrc  .lessst  .profile  .sudo_as_admin_successful  x1
.. .bash_logout  .cache  .local  .ssh  .viminfo
ubuntucomor@comordemo:~$
```

/etc Directory

```
ubuntucomor@comordemo:/etc$ ls -l | grep '^-' | wc -l
78
```

```
..
adduser.conf
alternatives
apparmor
apparmor.d
appport
apt
bash.bashrc
bash_completion
bash_completion.d
bindresvport.blacklist
binfmt.d
byobu
ca-certificates
ca-certificates.conf
cloud
console-setup
cron.d
cron.daily
cron.hourly
cron.monthly
crontab
cron.weekly
cryptsetup-initramfs
crypttab
dbus-1
debconf.conf
debian_version
default
deluser.conf
depmod.d
dhcp
dpkg
e2scrub.conf
environment
ethertypes
ubuntucomor@comordemo:/etc$ _
fuse.conf
fwupd
gai.conf
groff
group
group-
grub.d
gshadow
gshadow-
gss
hdparm.conf
host.conf
hostname
hosts
hosts.allow
hosts.deny
init.d
initramfs-tools
inputrc
iproute2
iscsi
issue
issue.net
kernel
landscape
ldap
ld.so.cache
ld.so.conf
ld.so.conf.d
legal
libaudit.conf
libblockdev
libnl-3
locale.alias
locale.gen
localtime
login.defs
logrotate.conf
logrotate.d
lsb-release
lv
magic
magic.mime
manpath.config
mdadm
mime.types
mke2fs.conf
ModemManager
modprobe.d
modules
modules-load.d
mtab
multipath
multipath.conf
nanorc
needrestart
netconfig
netplan
network
networkd-dispatcher
networks
newt
nftables.conf
nsswitch.conf
opt
os-release
overlayroot.conf
PackageKit
pam.conf
pam.d
passwd
perl
pki
pm
polkit-1
pollinate
profile
profile.d
protocols
.pwd.lock
python3
python3.10
rc0.d
rc1.d
rc2.d
rc3.d
rc4.d
rc5.d
rc6.d
rcS.d
resolv.conf
rmt
rpc
rsyslog.conf
rsyslog.d
screenrc
security
selinux
services
shadow
shadow-
shells
skel
sos
ssh
ssl
subgid
subuid
subuid-
sudo.conf
sudoers
sudoers.d
sudo_logsrvd.conf
sysctl.conf
sysctl.d
systemd
terminfo
thermald
timezone
tmpfiles.d
ubuntu-advantage
ucf.conf
udev
udisks2
ufw
update-manager
update-motd.d
update-notifier
UPower
usb_modeswitch.conf
usb_modeswitch.d
vim
vmware-tools
vtrgb
wgetrc
X11
xattr.conf
xdg
zsh_command_not_found
```

/ Directory

```
ubuntucomor@comordemo:/$ ls -l | grep '^-' | wc -l
```

```
1
```

```
ubuntucomor@comordemo:/$ ls -la
```

```
.. bin dev home lib32 libx32 media opt root sbin srv sys usr
boot etc lib lib64 lost+found mnt proc run snap swap.img tmp var
```

3. นับจำนวนไฟล์ทั้งหมดใน Directories ดังนี้ (รวมใน Subdirectories แต่ไม่ต้องนับ Hidden Files)

คำสั่ง: `find -type f -not -name '.*' | wc -l`

Home directory

```
ubuntucomor@comordemo:~$ find -type f -not -name '.*' | wc -l
2
ubuntucomor@comordemo:~$ ls -a
.  .bash_history  .bashrc  .lessht  .profile  .sudo_as_admin_successful
.. .bash_logout  .cache   .local   .ssh      .viminfo
ubuntucomor@comordemo:~$
```

/etc Directory

```
ubuntucomor@comordemo:/etc$ find -type f -not -name '.*' | wc -l
705
find: './multipath': Permission denied
find: './ssl/private': Permission denied
find: './polkit-1/localauthority': Permission denied
ubuntucomor@comordemo:/etc$ _
```

..	fuse.conf	login.defs	perl	subuid
adduser.conf	fwupd	logrotate.conf	pk1	subuid-
alternatives	gai.conf	logrotate.d	pm	sudo.conf
apparmor	groff	lsb-release	polkit-1	sudoers
apparmor.d	group	lvn	pollinate	sudoers.d
appport	group-	machine-id	profile	sudo_logsrvd.conf
apt	grub.d	magic	profile.d	sysctl.conf
bash.bashrc	gshadow	magic.mime	protocols	sysctl.d
bash_completion	gshadow-	manpath.config	.pwd.lock	systemd
bash_completion.d	gss	mdadm	python3	terminfo
bindresvport.blacklist	hdparm.conf	mime.types	python3.10	thermald
binfmt.d	host.conf	mke2fs.conf	rc0.d	timezone
byobu	hostname	ModemManager	rc1.d	tmpfiles.d
ca-certificates	hosts	modprobe.d	rc2.d	ubuntu-advantage
ca-certificates.conf	hosts.allow	modules	rc3.d	ucf.conf
cloud	hosts.deny	modules-load.d	rc4.d	udev
console-setup	init.d	mtab	rc5.d	udisks2
cron.d	initramfs-tools	multipath	rc6.d	ufw
cron.daily	inputrc	multipath.conf	rc8.d	update-manager
cron.hourly	iproute2	nanorc	resolv.conf	update-motd.d
cron.monthly	iscsi	needrestart	rmt	update-notifier
crontab	issue	netconfig	rpc	UPower
cron.weekly	issue.net	netplan	rsyslog.conf	usb_modeswitch.conf
cryptsetup-initramfs	kernel	network	rsyslog.d	usb_modeswitch.d
crypttab	landscape	networkd-dispatcher	screenrc	vim
dbus-1	ldap	networks	security	vmware-tools
debconf.conf	ld.so.cache	newt	selinux	vtrgb
debian_version	ld.so.conf	nftables.conf	services	wgetrc
default	ld.so.conf.d	nsswitch.conf	shadow	X11
deluser.conf	legal	opt	shadow-	xattr.conf
depmod.d	libaudit.conf	os-release	shells	xdg
dhcp	libblockdev	overlayroot.conf	skel	zsh_command_not_found
dpkg	libn1-3	PackageKit	sos	
e2scrub.conf	locale.alias	pam.conf	ssh	
environment	locale.gen	pam.d	ssl	
ethertypes	localtime	passwd	subgid	

```
ubuntucomor@comordemo:/etc$
```

/ Directory

```
find: './proc/937/task/937/fd': Permission denied
find: './proc/937/task/937/fdinfo': Permission denied
find: './proc/937/task/937/ns': Permission denied
find: './proc/937/fd': Permission denied
find: './proc/937/map_files': Permission denied
find: './proc/937/fdinfo': Permission denied
find: './proc/937/ns': Permission denied
find: './snap/core20/2105/etc/ssl/private': Permission denied
find: './snap/core20/2105/root': Permission denied
find: './snap/core20/2105/var/cache/ldconfig': Permission denied
find: './snap/core20/2105/var/cache/private': Permission denied
find: './snap/core20/2105/var/lib/private': Permission denied
find: './snap/core20/2105/var/lib/snapd/void': Permission denied
find: './snap/core20/1974/etc/ssl/private': Permission denied
find: './snap/core20/1974/root': Permission denied
find: './snap/core20/1974/var/cache/ldconfig': Permission denied
find: './snap/core20/1974/var/cache/private': Permission denied
find: './snap/core20/1974/var/lib/private': Permission denied
find: './snap/core20/1974/var/lib/snapd/void': Permission denied
find: './sys/kernel/tracing': Permission denied
find: './sys/kernel/debug': Permission denied
find: './sys/fs/pstore': Permission denied
find: './sys/fs/bpf': Permission denied
find: './tmp/systemd-private-a714b3616a9040109712e639f6592be8-systemd-timesyncd.service-GI5r0F': Permission denied
find: './tmp/snap-private-tmp': Permission denied
find: './tmp/systemd-private-a714b3616a9040109712e639f6592be8-systemd-resolved.service-uF6r7V': Permission denied
find: './tmp/systemd-private-a714b3616a9040109712e639f6592be8-systemd-logind.service-5rT0H7': Permission denied
find: './tmp/systemd-private-a714b3616a9040109712e639f6592be8-ModemManager.service-iLTMVA': Permission denied
find: './etc/multipath': Permission denied
find: './etc/ssl/private': Permission denied
find: './etc/polkit-1/localauthority': Permission denied
131900
ubuntucomor@comordemo:/$ _
```

```
131900
ubuntucomor@comordemo:/$ ls -la
.  bin  dev  home  lib32  libx32  media  opt  root  sbin  srv  sys  usr
.. boot  etc  lib  lib64  lost+found  mnt  proc  run  snap  swap.img  tmp  var
ubuntucomor@comordemo:/$ _
```

4. เขียน Shell Script นับเลขจาก X ไป Y และแสดงผลออกหน้าจอ โดยรับค่า X และ Y จากช่องทางต่อไปนี้

4.1 จากการป้อนให้จาก User

```
#!/bin/bash
read x
read y

for (i=x;i=y;i++)
do echo $i
done_
```

4.2