

3-1

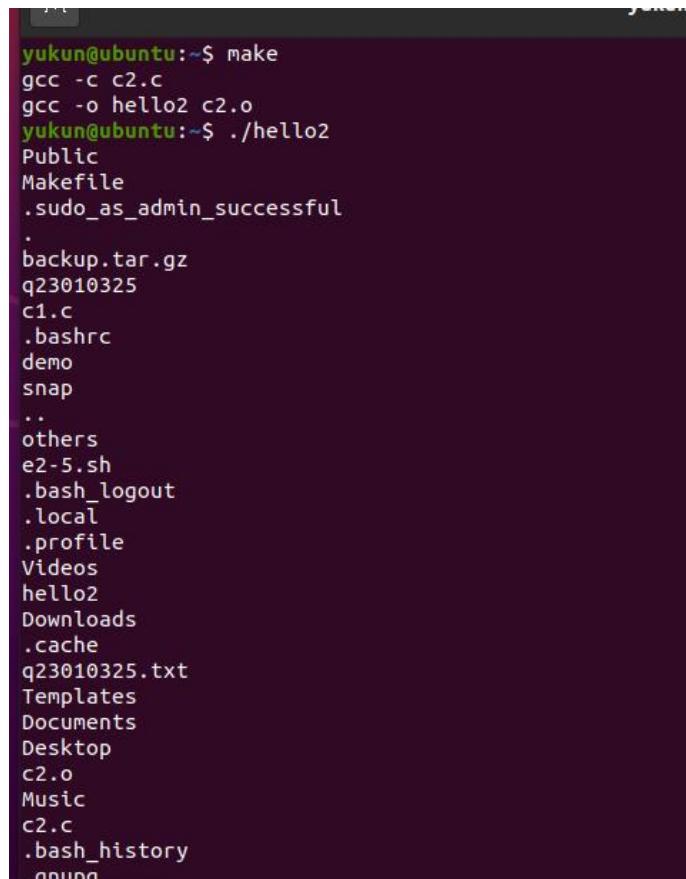
```
yukun@ubuntu:~$ make
gcc -c c1.c
gcc -o hello1 c1.o
yukun@ubuntu:~$ ./hello1 q23010325.txt
hello world

yukun@ubuntu:~$ make clean
rm -rf *.o
yukun@ubuntu:~$ ls
backup.tar.gz  Desktop  e2-5.sh  Makefile  Pictures  q23010325.txt  Videos
c1.c          Documents  exp    Music     Public    snap
demo          Downloads  hello1  others    q23010325  Templates
yukun@ubuntu:~$
```

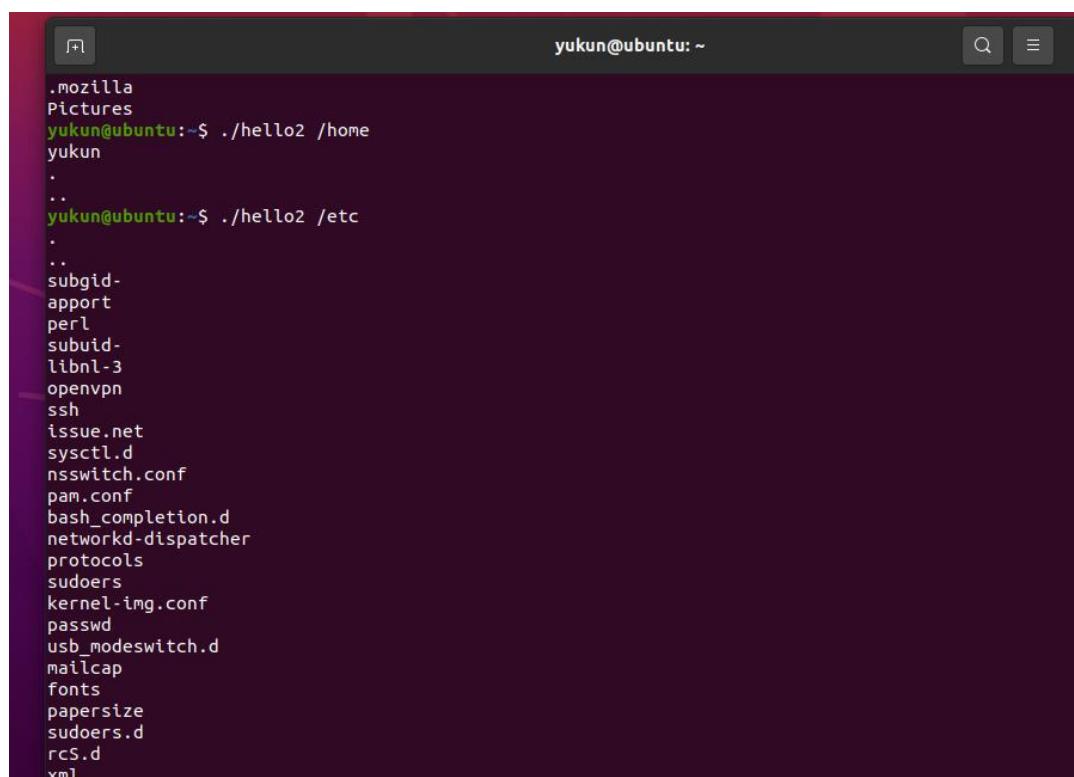
```
c1.c
~
Open ▾  ↗

1 #include <stdio.h>
2 int main(int argc, char* argv[])
3 {
4     char buf[1024] = { 0 };
5     FILE* fp = fopen(argv[1], "r");
6     if (argc < 2)
7     {
8         printf("please input source file!\n");
9     }
10    if (fp == NULL)
11    {
12        printf("open source %s failed\n", argv[1]);
13        return -1;
14    }
15    while (fgets(buf, 1024, fp))
16    {
17        printf("%s\n", buf);
18    }
19    return 0;
20 }
```

3-2



```
yukun@ubuntu:~$ make
gcc -c c2.c
gcc -o hello2 c2.o
yukun@ubuntu:~$ ./hello2
Public
Makefile
.sudo_as_admin_successful
.
backup.tar.gz
q23010325
c1.c
.bashrc
demo
snap
..
others
e2-5.sh
.bash_logout
.local
.profile
Videos
hello2
Downloads
.cache
q23010325.txt
Templates
Documents
Desktop
c2.o
Music
c2.c
.bash_history
.qnupq
```



```
.mozilla
Pictures
yukun@ubuntu:~$ ./hello2 /home
yukun
.
..
yukun@ubuntu:~$ ./hello2 /etc
.
..
subgid-
apport
perl
subuid-
libnl-3
openvpn
ssh
issue.net
sysctl.d
nsswitch.conf
pam.conf
bash_completion.d
networkd-dispatcher
protocols
sudoers
kernel-img.conf
passwd
usb_modeswitch.d
mailcap
fonts
papersize
sudoers.d
rcS.d
xml
```

```
yukun@ubuntu: ~
locale.alias
e2scrub.conf
ifpluggd
cron.d
initramfs-tools
rc1.d
logrotate.d
libpaper.d
gss
udisks2
vtrgb
gai.conf
gtk-3.0
modprobe.d
crontab
mailcap.order
geoclue
security
apg.conf
cron.weekly
fuse.conf
gnome
bash.bashrc
adduser.conf
apparmor
vulkan
hostname
environment
yukun@ubuntu:~$ make clean
rm -rf *.o
yukun@ubuntu:~$ echo q23010325zhengyukun
q23010325zhengyukun
yukun@ubuntu:~$
```

```
c2.c
Open ▾ Save
1 #include <stdio.h>
2 #include <dirent.h>
3 #include <sys/types.h>
4
5 int main(int argc, char* argv[])
6 {
7     DIR* dirp;
8     struct dirent* direntp;
9     char* dir_name = ".";
10
11    if (argc >= 2) {
12        dir_name = argv[1];
13    }
14
15    if ((dirp = opendir(dir_name)) == NULL) {
16        printf("error %s\n", dir_name);
17        return 1;
18    }
19
20    while ((direntp = readdir(dirp)) != NULL) {
21        printf("%s\n", direntp->d_name);
22    }
23
24    closedir(dirp);
25    return 0;
26 }
```

3-3

```
yukun@ubuntu:~$ cd ~/exp
yukun@ubuntu:~/exp$ ./home/yukun/hello3
/home/yukun/exp
success
/home
yukun@ubuntu:~/exp$ cd ..
yukun@ubuntu:~$ hello3

Command 'hello3' not found, did you mean:

  command 'hellow' from snap hellow (0.1)
  command 'hello' from snap hello (2.10)
  command 'hello' from deb hello (2.10-2ubuntu2)
  command 'hello' from deb hello-traditional (2.10-5)

See 'snap info <snapname>' for additional versions.
```

```
yukun@ubuntu:~$ ./hello3
/home/yukun
success
/home
yukun@ubuntu:~$
```

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <unistd.h>
4
5 int main(){
6     char buf[1024] = {0};
7     char buf2[1024] = {0};
8
9     getcwd(buf, 1024);
10    printf("%s\n", buf);
11
12    if(chdir("/home") < 0){
13        printf("error\n");
14    }
15    else
16    {
17        printf("success\n");
18    }
19
20    getcwd(buf2, 1024);
21    printf("%s\n", buf2);
22
23    return 0;
24 }
```