

3-1

```
yukun@ubuntu: ~  
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:~$
```

```
Open  ▼  c1.c  
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
.gnupg
```

```
yukun@ubuntu: ~
.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  
ifplugd  
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:~$
```

```
Open c2.c 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 }
```

```

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 {
7     char buf[1024] = {0};
8     char buf2[1024] = {0};
9
10    getcwd(buf, 1024);
11    printf("%s\n", buf);
12
13    if(chdir("/home") < 0){
14        printf("error\n");
15    }
16    else
17    {
18        printf("success\n");
19    }
20
21    getcwd(buf2, 1024);
22    printf("%s\n", buf2);
23
24    return 0;

```