

(1) Task 1

Write a C program that uses standard I/O libraries to display the contents of text files. The program is compiled and linked by the make tool, which requires the generation of the.o file first, and then the generation of the executable file, and the function of deleting the intermediate file (.o) in the makefile file.

结果:

```
root@whotouchedmycheese:~/linux_e3# make
gcc -c c1.c
gcc -o hello1 c1.o
root@whotouchedmycheese:~/linux_e3# ls
c1.c  c1.o  hello1  Makefile
root@whotouchedmycheese:~/linux_e3#

root@whotouchedmycheese:~/linux_e3# ./hello1 Hello
B22021727 周沛谕
root@whotouchedmycheese:~/linux_e3#
```

(2) Task 2

Write a C program that displays all the file names in the current directory. The program is compiled and linked by the make tool, which requires the generation of the.o file first, and then the generation of the executable file, and the function of deleting the intermediate file (.o) in the makefile file.

结果:

```
gcc -o hello1 c2.o
root@whotouchedmycheese:~/linux_e3/2# ls
c2.c  c2.o  hello1  Makefile
root@whotouchedmycheese:~/linux_e3/2# ./hello1
Segmentation fault (core dumped)
root@whotouchedmycheese:~/linux_e3/2# ./hello1 ./
hello1
Makefile
c2.c
.
c2.o
..
root@whotouchedmycheese:~/linux_e3/2#
```

(3) Task 3

Write a C program that changes the working directory of the current process. The program is compiled and linked by the make tool, which requires the generation of the.o file first, and then the generation of the executable file, and the function of deleting the intermediate file (.o) in the makefile file.

结果:

```
• root@whotouchedmycheese:~/linux_e3/3# make
gcc -c c3.c
gcc -o hello1 c3.o
• root@whotouchedmycheese:~/linux_e3/3# ls
c3.c  c3.o  hello1  Makefile
• root@whotouchedmycheese:~/linux_e3/3# ./hello1
/root/linux_e3/3
success
/home
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• root@whotouchedmycheese:~/linux_e3/3#
```