```
c1.c
                                                                           打开(0) ~
           J+1
                                                                   保存(S)
                                       ~/桌面/linux/linux3_1
1 #include <stdio.h>
3 int main(int argc, char* argv[]) {
     // 检查是否传入文件名参数
5
     if (argc < 2) {
         printf("Please input source file!\n");
6
7
         return -1;
8
     }
9
10
     char buf[1024] = { 0 };
11
     // 打开文件
     FILE* fp = fopen(argv[1], "r");
12
13
     if (fp == NULL) {
         printf("Open source file %s failed\n", argv[1]);
14
15
         return -1;
16
     }
17
18
     // 读取文件内容并输出
19
     while (fgets(buf, sizeof(buf), fp)) {
20
         printf("%s", buf);
21
     }
22
23
     // 关闭文件
24
     fclose(fp);
25
     return 0;
26
```

makefile

```
Makefile
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                                                                 保存(S)
                                       ~/桌面/linux/linux3_1
                    c1.c
                                                               Makefile
 1 # Makefile for compiling and linking c1.c
 3 # 编译器设置
 4 CC = gcc
 5 CFLAGS = -Wall
 7 # 最终目标文件
 8 TARGET = hello1
10 # 目标文件
11 OBJ = c1.0
12
13 # 默认目标: 编译并链接
14 all: $(TARGET)
15
16 # 链接目标文件生成可执行文件
17 $(TARGET): $(OBJ)
         $(CC) $(OBJ) -o $(TARGET)
18
19
20 # 编译源代码为目标文件
21 $(OBJ): c1.c
22
         $(CC) $(CFLAGS) -c c1.c
23
24 # 清理目标,删除中间文件和可执行文件
25 clean:
26
         rm -rf *.o $(TARGET)
```

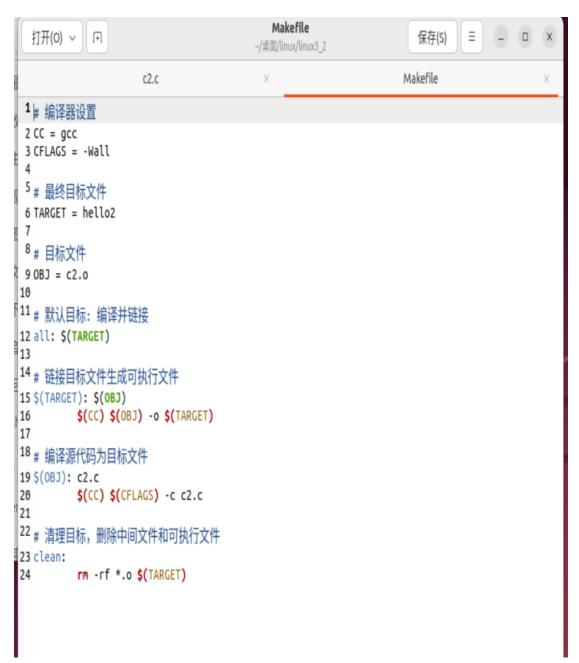
test.txt



## 运行结果

```
c2.c
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 打开(O) ~
                                          ~/桌面/linux/linux3_2
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <dirent.h>
4 #include <sys/types.h>
6 int main(int argc, char *argv[]) {
      if (argc < 2) {
          printf("Please provide a directory path.\n");
8
9
          return -1;
10
      }
11
12
      DIR *dirp;
13
      struct dirent *direntp;
14
15
      // 打开目录
      dirp = opendir(argv[1]);
16
      if (dirp == NULL) {
17
          perror("Error opening directory");
18
19
          return -1;
20
      }
21
22
     // 读取目录内容
      while ((direntp = readdir(dirp)) != NULL) {
23
24
          printf("%s\n", direntp->d_name); // 打印文件名
25
      }
26
27
      // 关闭目录
28
      closedir(dirp);
29
30
      return 0;
31 }
```

makefile



运行结果

```
john@john-VirtualBox:~/桌面/linux/linux3_2$ make
gcc -Wall -c c2.c
gcc c2.o -o hello2
john@john-VirtualBox:~/桌面/linux/linux3_2$ ./hello2 /path/list
Error opening directory: No such file or directory
john@john-VirtualBox:~/桌面/linux/linux3_2$ ./hello2 /home/user
Error opening directory: No such file or directory
john@john-VirtualBox:~/桌面/linux/linux3_2$ ./hello2 /home/john
下载
.sudo_as_admin_successful
eaiInferrer-Src
.java
EASY-EAI
.presage
.viminfo
.gnupg
图片
.ssh
.local
.pam_environment
test.txt
音乐
桌面
```

```
john@john-VirtualBox:~/桌面/linux/linux3_2$ make clean
rm -rf *.o hello2
```

```
c3.c
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 打开(o) ∨ | □
                                                                       保存(S)
                                          ~/桌面/linux/linux3_3
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <unistd.h>
5 int main() {
      char buf[1024] = {0};
7
      char buf2[1024] = {0};
8
9
      // 获取当前工作目录
10
      if (getcwd(buf, sizeof(buf)) == NULL) {
          perror("getcwd failed");
11
12
          return -1;
13
14
      printf("Current directory: %s\n", buf);
15
16
      // 更改工作目录
17
      if (chdir("/home") < 0) {</pre>
          perror("chdir failed");
18
19
      } else {
20
          printf("Directory changed successfully to /home\n");
21
22
23
     // 获取更改后的工作目录
      if (getcwd(buf2, sizeof(buf2)) == NULL) {
24
25
          perror("getcwd failed");
26
          return -1;
27
      printf("New current directory: %s\n", buf2);
28
29
30
      return 0;
31 }
```

makefile



运行结果

```
john@john-VirtualBox:~/桌面/linux/linux3_3$ make
gcc -Wall -c c3.c
gcc c3.o -o hello3
john@john-VirtualBox:~/桌面/linux/linux3_3$ ./hello3
Current directory: /home/john/桌面/linux/linux3_3
Directory changed successfully to /home
New current directory: /home
john@john-VirtualBox:~/桌面/linux/linux3_3$
```