

## 四. 实验结果与分析

### 2

源程序：

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
    FILE *fp;
    int n, sum = 0, mult = 1;
    if ((fp=fopen("Datafile.dat", "r+"))==NULL){
        printf("Can't open file!\n");exit(0);
    }
    while(fscanf(fp, "%d", &n)!=EOF){
        sum = sum+n;
        mult = mult*n;
    }
    fprintf(fp, "%d %d", sum, mult);
    fclose(fp);
    return 0;
}
```

(1) 8 error(s) 3 warnings

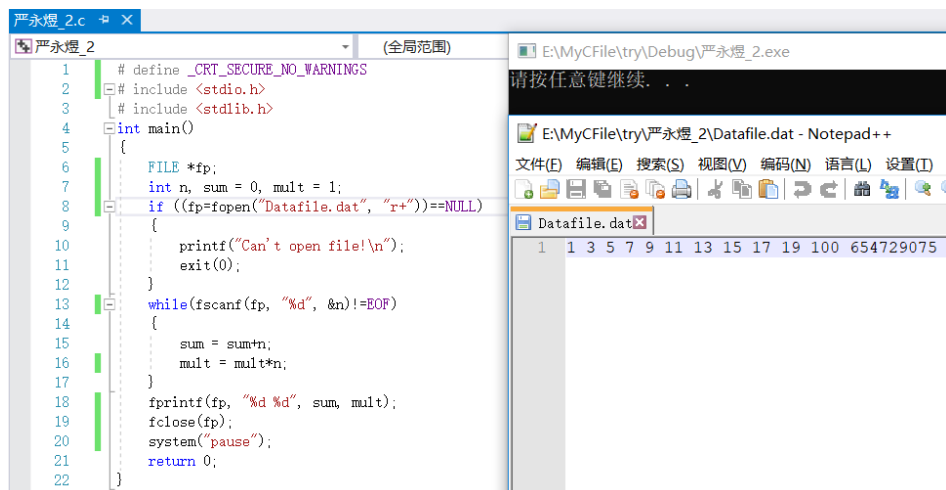
- ① (8): error C2440: “=” : 无法从 “FILE \*” 转换为 “FILE”  
(5): FILE \*fp;
- ② (8): error C2143: 语法错误: 缺少 “;” (在 “==” 的前面)  
(8): if ((fp=fopen("Datafile.dat", "r"))==NULL)
- ③ (13): error C4700: 使用了未初始化的局部变量 “sum”、“mult”  
(6): int n, sum = 0, mult = 1;

(3) 方法：单步调试

改错汇总：

错误行号：8 正确语句：if ((fp=fopen("Datafile.dat", "r+"))==NULL)

错误行号：12 正确语句：while(fscanf(fp, "%d", &n)!=EOF)

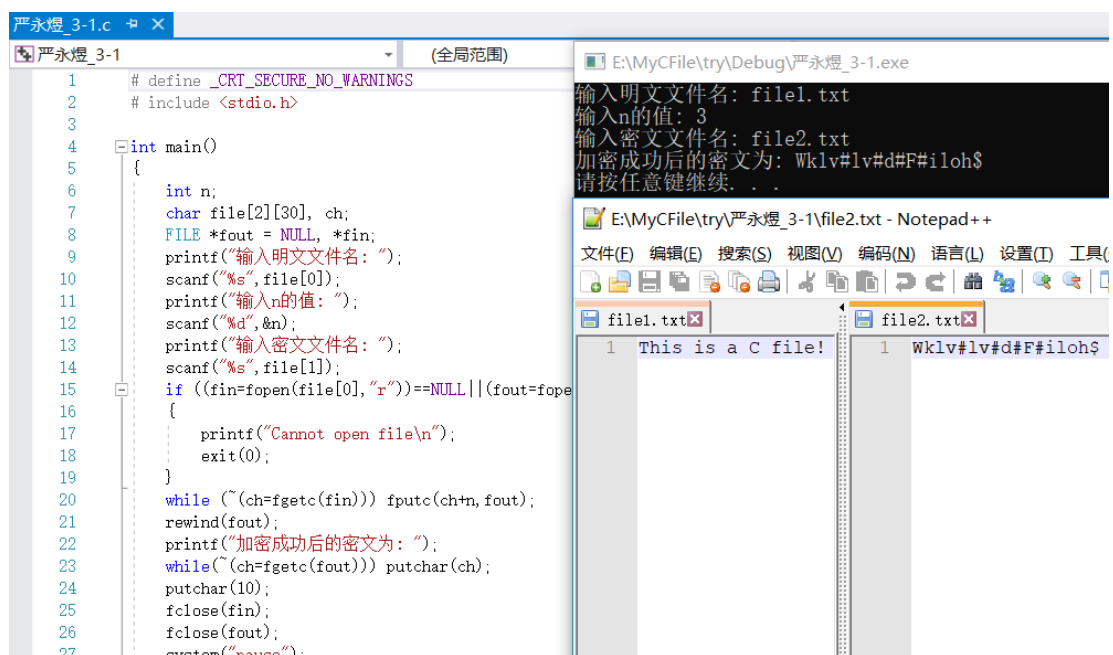


## 3-1

源程序:

```
# include <stdio.h>

int main()
{
    int n;
    char file[2][30], ch;
    FILE *fout, *fin;
    printf("输入明文文件名: ");
    scanf("%s", file[0]);
    printf("输入 n 的值: ");
    scanf("%d", &n);
    printf("输入密文文件名: ");
    scanf("%s", file[1]);
    if ((fin=fopen(file[0], "r"))==NULL || (fout=fopen(file[1], "w+"))==NULL) {
        printf("Cannot open file\n");
        exit(0);
    }
    while (~(ch=fgetc(fin))) fputc(ch+n, fout);
    rewind(fout);
    printf("加密成功后的密文为: ");
    while (~(ch=fgetc(fout))) putchar(ch);
    putchar(10);
    fclose(fin);
    fclose(fout);
    return 0;
}
```



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## 3-2

源程序：

```
# include <stdio.h>
# define N 10
struct Student
{
    char num[10];
    char name[10];
    char phone[20];
    char addr[50];
}students[N];
void save()
{
    FILE *fp;
    if ((fp=fopen("student.txt","w"))==NULL)
    {
        printf("Cannot open file\n");
        return;
    }
    for (int i=0;i<N;i++)
    {
        fprintf(fp,"%-10s%-10s%-20d%-50s\n",students[i].num,\
            students[i].name,students[i].phone,students[i].addr);
        printf("%-10s%-10s%-20d%-50s\n",students[i].num,students[i].name,\
            students[i].phone,students[i].addr);
    }
    fclose(fp);
}
int main()
{
    int i;
    printf("Please enter data of %d students:\n",N);
    for (i=0;i<N;i++)
    {
        scanf("%s%s%s%s",students[i].num,students[i].name,\
            students[i].phone,students[i].addr);
    }
    save();
    return 0;
}
```

严永煜 3-2.c

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```
# define _CRT_SECURE_NO_WARNINGS
#include <stdio.h>
#define N 10

struct Student
{
    char num[10];
    char name[10];
    char phone[20];
    char addr[50];
} students[N];

void save()
{
    FILE *fp;
    int i;
    if ((fp=fopen("student.txt","w"))!=NULL)
    {
        printf("文件打开成功!\n");
        return;
    }
    for (i=0;i<N;i++)
    {
        fprintf(fp,"%s\n",students[i].num);
        printf("%s\n",students[i].name);
    }
    fclose(fp);
}
```

E:\MyCFile\try\Debug\严永煜\_3-2.exe

Please enter data of 10 students:  
01 zhang 1111111111 asdfghjk  
02 li 1111222222 qwertyuoi  
03 wang 12345678910 qweqweqw  
04 pan 12312312312 qweqweqwe  
05 lu 12341234123 heheheheheh  
06 tan 12121212121 sdhsdjfhs  
07 yan 12123444444 dkfskdfhjk  
08 ma 12312312312 hfksjdh  
09 peng 12312312312 skbdkbskd  
10 gu 23123232323 shfkjbjkjdksdj  
01 zhang 20489492 asdfghjk  
02 li 20489582 qwertyuoi  
03 wang 20489672 qweqweqw  
04 pan 20489762 qweqweqwe  
05 lu 20489852 heheheheheh  
06 tan 20489942 sdhsdjfhs  
07 yan 20490032 dkfskdfhjk  
08 ma 20490122 hfksjdh  
09 peng 20490212 skbdkbskd  
10 gu 20490302 shfkjbjkjdksdj

E:\MyCFile\try\严永煜\_3-2\student.txt - Notepad++

文件(F) 编辑(E) 搜索(S) 视图(V) 编码(N) 语言(L) 设置(T) 工具(O) 宏(M) 运行(R)

student.txt

1 01 zhang 20489492 asdfghjk  
2 02 li 20489582 qwertyuoi  
3 03 wang 20489672 qweqweqw  
4 04 pan 20489762 qweqweqwe  
5 05 lu 20489852 heheheheheh  
6 06 tan 20489942 sdhsdjfhs  
7 07 yan 20490032 dkfskdfhjk  
8 08 ma 20490122 hfksjdh  
9 09 peng 20490212 skbdkbskd  
10 10 gu 20490302 shfkjbjkjdksdj  
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