

改错:

(1) 初次编译后共有 6 error(s) 1 warning(s)。请填写各出错信息 (error 和 warning 的中文含义) 原因。

- ①C2059 语法错误: "}"
- ②C2143 语法错误: 缺少";" (在"{"的前面)
- ③E0169 应输入声明
- ④E0130 应输入"{"
- ⑤C2449 在文件范围内找到"{"
- ⑥C2085 "main": 不在形参表中
- ⑦C4474 printf: 格式字符串中传递的参数太多

(2) 思考: 第一个错误的意义何在? 它是如何引起的?

fact 函数后加上了分号。

(3) 改正以上编译错误后, 程序又出现其他编译错误和编译警告性错误, 请逐步填写出错信息的中文含义并分析原因。

- ①E0137 表达式必须是可修改的左值
- ②C2106 "=": 左操作数必须为左值
- ③

请填写改正后的正确语句。

错误行号: 20 正确语句: `result = result*i`

(4) 改正上述错误后, 再次编译, 连接后无错误出现, 运行程序。运行结果为: `1!+ 2!+ ... + 10!=409113.000000`, 是否正确: 是

请填写改正后的正确语句。

错误行号:	正确语句:
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错误行号:	正确语句:

```
1  #define _CRT_SECURE_NO_WARNINGS
2  #include<stdio.h>
3  double fact(int n);
4  int main(void)
5  {
6      int i;
7      double sum=0;
8      for (i = 1; i < 10; i++)
9          sum = sum + fact(i);
10     printf("1!+ 2!+ ... + 10!=%f\n", sum);
11     system("pause");
12     return 0;
13 }
14 double fact(int n)
15 {
16     int i;
17     double result=1;
18
19     for (i = 1; i <= n; i++)
20         result = result*i;
21     return result;
22 }
```

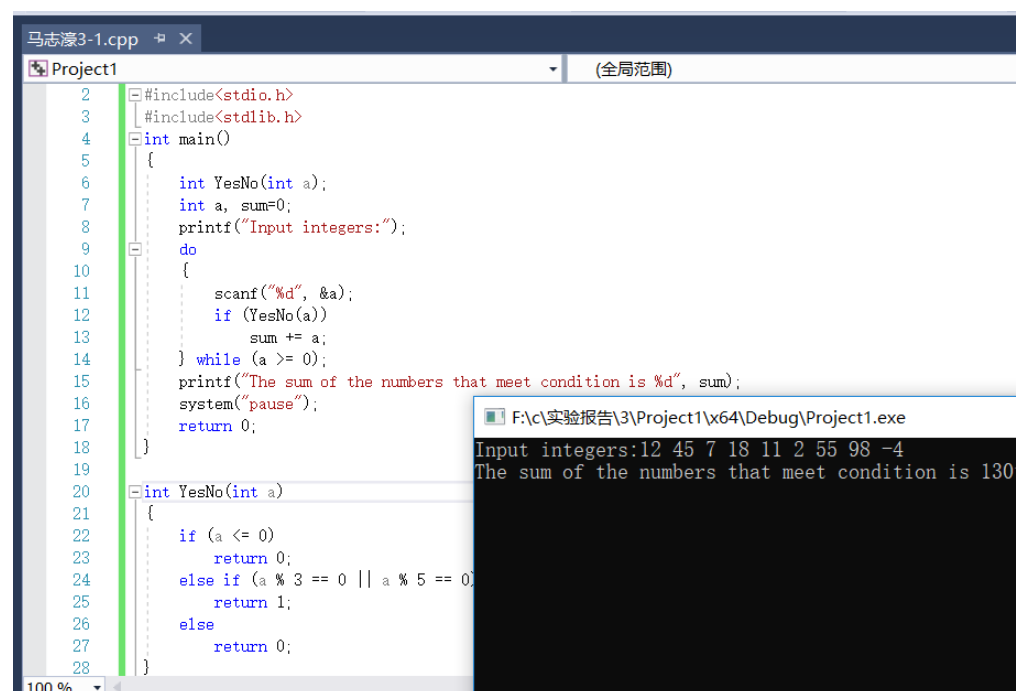
Output: 1!+ 2!+ ... + 10!=409113.000000
请按任意键继续. . .

3-1

```
#include<stdio.h>
#include<stdlib.h>
int main()
{
    int YesNo(int a);
    int a, sum=0;
    printf("Input integers:");
    do
    {
        scanf("%d", &a);
        if (YesNo(a))
            sum += a;
    } while (a >= 0);
    printf("The sum of the numbers that meet condition is %d", sum);
    system("pause");
    return 0;
}
```

```
int YesNo(int a)
{
    if (a <= 0)
        return 0;
    else if (a % 3 == 0 || a % 5 == 0)
        return 1;
    else
        return 0;
}
```

Do while 函数的条件容易搞反。



The screenshot shows a C++ IDE with a file named '马志濠3-1.cpp'. The code is the same as shown in the previous blocks. The output window shows the execution of 'Project1.exe' with the following input and output:

```
Input integers:12 45 7 18 11 2 55 98 -4
The sum of the numbers that meet condition is 130
```

3-2

```
#include<stdio.h>
#include<stdlib.h>
int main()
{
    int Is(int a);
    int m, n;
    printf("Input m:");
    scanf("%d", &m);
    printf("Input n:");
    scanf("%d", &n);
    for (m; m <= n; m++)
        if (Is(m))
            printf("%d\n", m);
    system("pause");
    return 0;
}
```

```
int Is(int a)
{
    int th, hu, te, nu;
    th = a / 1000;
    hu = a % 1000 / 100;
    te = a % 100 / 10;
    nu = a % 10;
    if (th*th*th + hu * hu*hu + te * te*te + nu * nu*nu == a)
        return 1;
    else
        return 0;
}
```

每一位数字的表达不是很熟练。



```
马志濠3-2.cpp 马志濠3-2.cpp
Project1 (全局范围)
2  #include<stdio.h>
3  #include<stdlib.h>
4  int main()
5  {
6      int Is(int a);
7      int m, n;
8      printf("Input m:");
9      scanf("%d", &m);
10     printf("Input n:");
11     scanf("%d", &n);
12     for (m; m <= n; m++)
13         if (Is(m))
14             printf("%d\n", m);
15     system("pause");
16     return 0;
17 }
18
19 int Is(int a)
20 {
21     int th, hu, te, nu;
22     th = a / 1000;
23     hu = a % 1000 / 100;
24     te = a % 100 / 10;
25     nu = a % 10;
26     if (th*th*th + hu * hu*hu + te * te*te + nu * nu*nu == a)
27         return 1;
28     else
29         return 0;
30 }
```

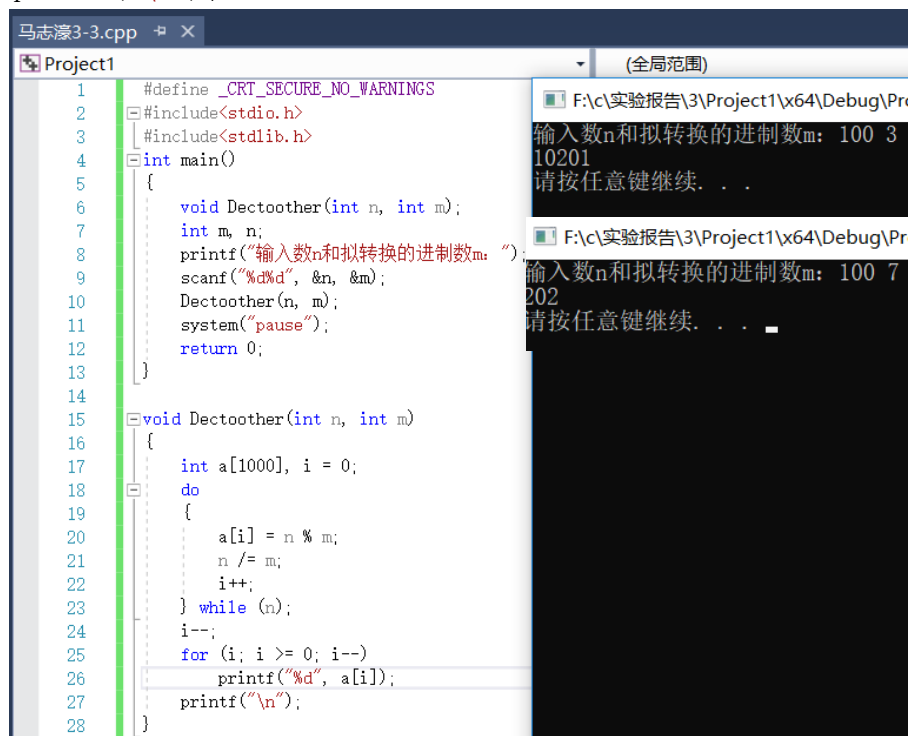
```
F:\C\实验报告\3\Project1\64
Input m:100
Input n:400
153
370
371
请按任意键继续. . .
```

3-3

```
#include<stdio.h>
#include<stdlib.h>
int main()
{
    void Dectoother(int n, int m);
    int m, n;
    printf("输入数n和拟转换的进制数m: ");
    scanf("%d%d", &n, &m);
    Dectoother(n, m);
    system("pause");
    return 0;
}
```

```
void Dectoother(int n, int m)
{
    int a[1000], i = 0;
    do
    {
        a[i] = n % m;
        n /= m;
        i++;
    } while (n);
    i--;
    for (i; i >= 0; i--)
        printf("%d", a[i]);
    printf("\n");
}
```

进制的转换方式不熟练。



The screenshot shows a C++ IDE with a file named '马志豪3-3.cpp'. The code is the same as provided in the previous blocks. The output window on the right shows two runs of the program. The first run takes input '100 3' and outputs '10201'. The second run takes input '100 7' and outputs '202'. Both outputs are followed by a prompt '请按任意键继续...' (Press any key to continue...).

```
马志豪3-3.cpp
Project1 (全局范围)
1 #define _CRT_SECURE_NO_WARNINGS
2 #include<stdio.h>
3 #include<stdlib.h>
4 int main()
5 {
6     void Dectoother(int n, int m);
7     int m, n;
8     printf("输入数n和拟转换的进制数m: ");
9     scanf("%d%d", &n, &m);
10    Dectoother(n, m);
11    system("pause");
12    return 0;
13 }
14
15 void Dectoother(int n, int m)
16 {
17     int a[1000], i = 0;
18     do
19     {
20         a[i] = n % m;
21         n /= m;
22         i++;
23     } while (n);
24     i--;
25     for (i; i >= 0; i--)
26         printf("%d", a[i]);
27     printf("\n");
28 }
```

F:\c\实验报告\3\Project1\x64\Debug\Pr
输入数n和拟转换的进制数m: 100 3
10201
请按任意键继续. . .

F:\c\实验报告\3\Project1\x64\Debug\Pr
输入数n和拟转换的进制数m: 100 7
202
请按任意键继续. . .

3-4

```
#include<stdio.h>
#include<stdlib.h>
#include"fun.c"
int main()
{
    int a, b;
    char c;
    scanf("%d%c%d", &a, &c, &b);
    if (c == '+')
        printf("%d + %d = %d", a, b, Add(a, b));
    if (c == '-')
        printf("%d - %d = %d", a, b, Sub(a, b));
    if (c == '*')
        printf("%d×%d = %d", a, b, Mul(a, b));
    if (c == '/')
        printf("%d÷%d = %f", a, b, Div(a, b));
    system("pause");
    return 0;
}

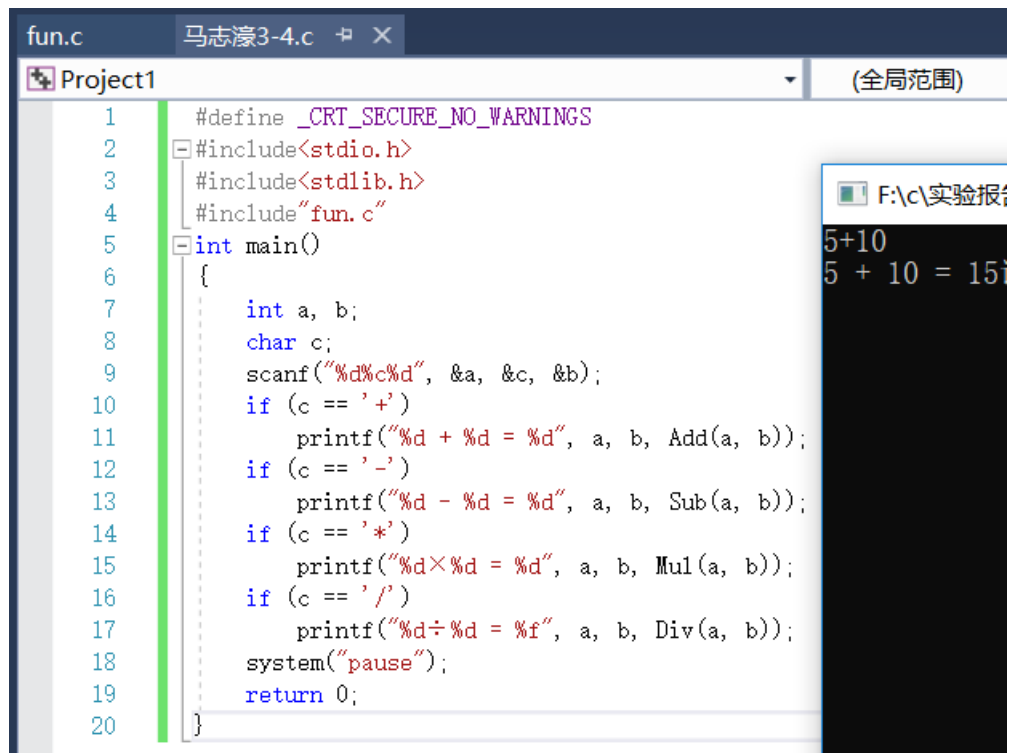
#include<stdio.h>
int Add(int a, int b)
{
    a += b;
    return a;
}

int Sub(int a, int b)
{
    a -= b;
    return a;
}

int Mul(int a, int b)
{
    a *= b;
    return a;
}

float Div(int a, int b)
{
    float c;
    c = 1.0*a / b;
    return c;
}
```

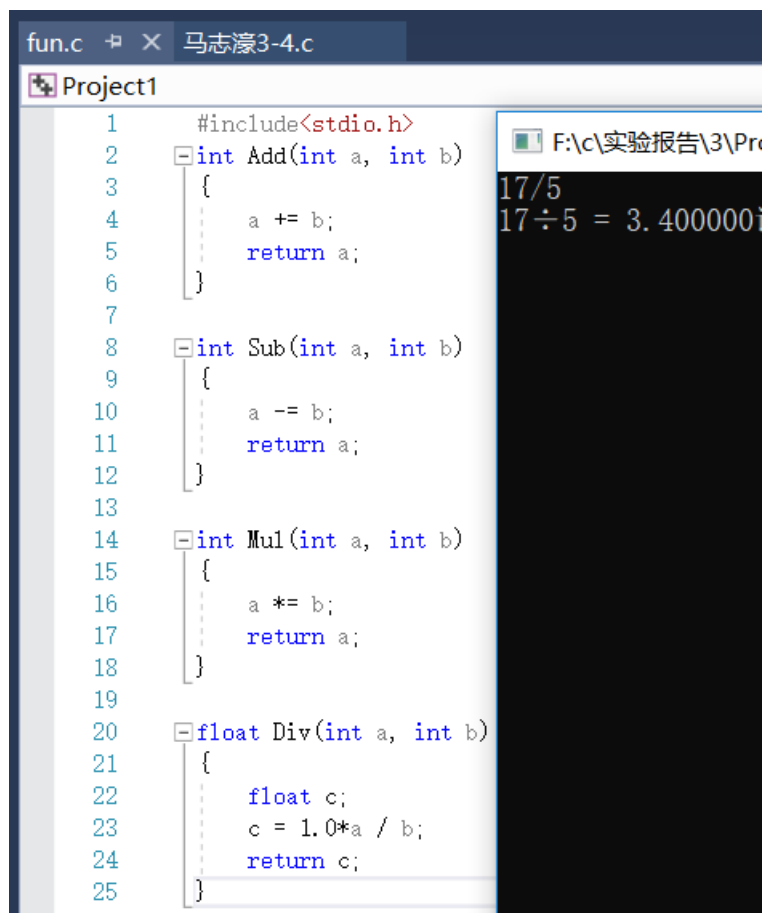
}



```
1 #define _CRT_SECURE_NO_WARNINGS
2 #include<stdio.h>
3 #include<stdlib.h>
4 #include"fun.c"
5 int main()
6 {
7     int a, b;
8     char c;
9     scanf("%d%c%d", &a, &c, &b);
10    if (c == '+')
11        printf("%d + %d = %d", a, b, Add(a, b));
12    if (c == '-')
13        printf("%d - %d = %d", a, b, Sub(a, b));
14    if (c == '*')
15        printf("%d × %d = %d", a, b, Mul(a, b));
16    if (c == '/')
17        printf("%d ÷ %d = %f", a, b, Div(a, b));
18    system("pause");
19    return 0;
20 }
```

Terminal Output:

```
5+10
5 + 10 = 15
```



```
1 #include<stdio.h>
2 int Add(int a, int b)
3 {
4     a += b;
5     return a;
6 }
7
8 int Sub(int a, int b)
9 {
10    a -= b;
11    return a;
12 }
13
14 int Mul(int a, int b)
15 {
16    a *= b;
17    return a;
18 }
19
20 float Div(int a, int b)
21 {
22    float c;
23    c = 1.0*a / b;
24    return c;
25 }
```

Terminal Output:

```
17/5
17 ÷ 5 = 3.400000
```

文件的引用不熟练。