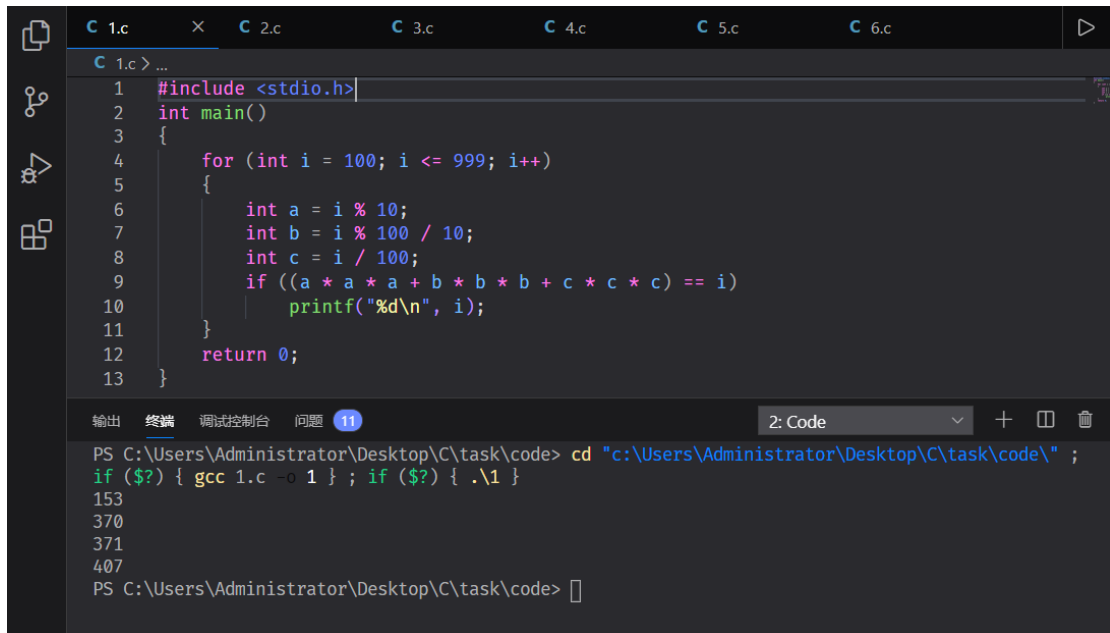


2018110071 工程 1804 张振尧

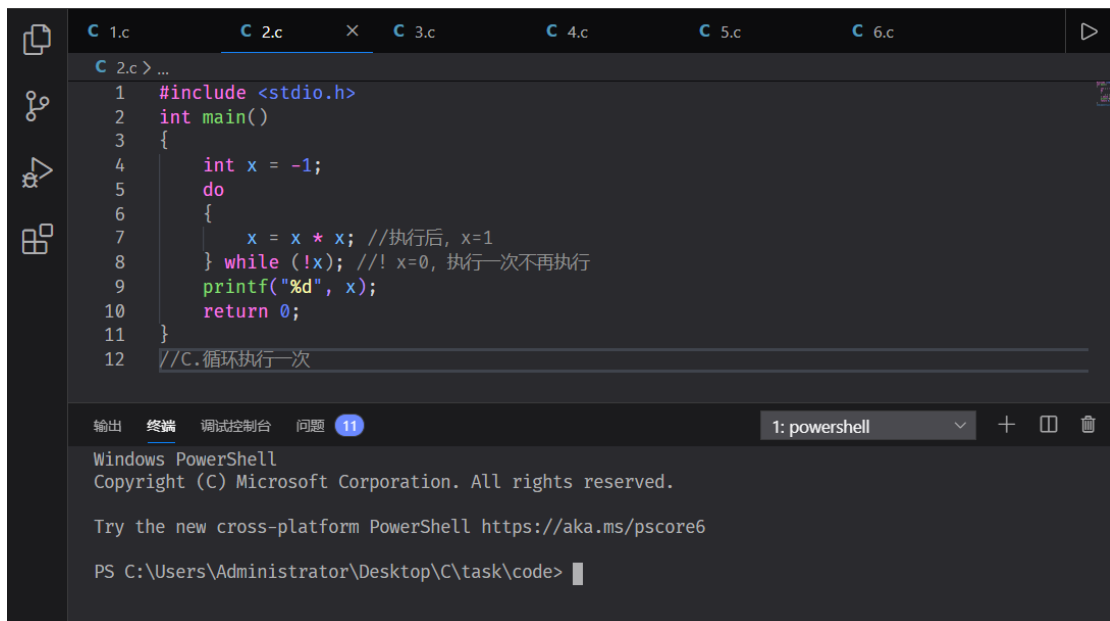


The screenshot shows the Visual Studio Code editor with a C program named 1.c. The code is as follows:

```
1 #include <stdio.h>
2 int main()
3 {
4     for (int i = 100; i <= 999; i++)
5     {
6         int a = i % 10;
7         int b = i % 100 / 10;
8         int c = i / 100;
9         if ((a * a * a + b * b * b + c * c * c) == i)
10            printf("%d\n", i);
11     }
12     return 0;
13 }
```

The terminal output shows the execution of the program, displaying the numbers 153, 370, 371, and 407, which are Armstrong numbers between 100 and 999.

```
PS C:\Users\Administrator\Desktop\C\task\code> cd "c:\Users\Administrator\Desktop\C\task\code\" ;
if ($?) { gcc 1.c -o 1 } ; if ($?) { .\1 }
153
370
371
407
PS C:\Users\Administrator\Desktop\C\task\code>
```



The screenshot shows the Visual Studio Code editor with a C program named 2.c. The code is as follows:

```
1 #include <stdio.h>
2 int main()
3 {
4     int x = -1;
5     do
6     {
7         x = x * x; //执行后, x=1
8     } while (!x); //! x=0, 执行一次不再执行
9     printf("%d", x);
10    return 0;
11 }
12 //C.循环执行一次
```

The terminal output shows the execution of the program, displaying the number 1, which is the result of the loop.

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Administrator\Desktop\C\task\code>
```

1.c2.c3.c4.c5.c6.c

C 3.c > ...
1 A.
2 while (1);死循环
3
4 B.
5 for循环没有判断退出的条件;死循环
6
7 C.
8 k在执行循环后;始终大于零
9 不符合while(k <= 0);不是死循环
10
11 D.
12 s++ %2 + 3 % 2 = 1 + 1 = 2;始终为2
13 while (s++ % 2 + 3 % 2);死循环

输出 终端 调试控制台 问题 11

1: powershell

Windows PowerShell
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS C:\Users\Administrator\Desktop\C\task\code>

1.c2.c3.c4.c5.c6.c

C 4.c > main()
1 #include <stdio.h>
2 int main()
3 {
4 int x = 1, i = 4, N, s=0;
5 scanf("%d", &N); N++;
6 while (i / 2 <= N)
7 {
8 printf("%d\n", x);
9 s += x; x += i; i += 2;
10 }
11 printf("%d\n", s);
12 return 0;
13 }

输出 终端 调试控制台 问题 11

2: Code

if (\$?) { gcc 4.c -o 4 } ; if (\$?) { .\4 }
11
1
5
11
19
29
41
55
71
89
109
131
561
PS C:\Users\Administrator\Desktop\C\task\code>

⌕ 11 0 Live Share 行 5, 列 21 (已选择16) 空格: 4 UTF-8 CRLF C V

```
C 1.c C 2.c C 3.c C 4.c C 5.c X C 6.c
C 5.c > ...
1 #include <stdio.h>
2 int main()
3 {
4     int n;
5     scanf("%d", &n);
6     for (int i = 0; i <= n; i++){
7         for (int t = i; t >= 0; t--){
8             if (t * t == i)
9                 {printf("%d\n", i);break;}
10        }
11    }
12    return 0;
13 }
```

输出 终端 调试控制台 问题 11 2: Code + [] 删除

```
PS C:\Users\Administrator\Desktop\C\task\code> cd "c:\Users\Administrator\Desktop\C\task\code\" ;
if ($?) { gcc 5.c -o 5 } ; if ($?) { .\5 }
110
0
1
4
9
16
25
36
49
64
81
100
PS C:\Users\Administrator\Desktop\C\task\code> a
```

行 1, 列 19 空格: 4 UTF-8 CRLF C W

```
C 1.c C 2.c C 3.c C 4.c C 5.c C 6.c X
C 6.c > main()
1 #include <stdio.h>
2 int main()
3 {
4     int n, i, t;
5     scanf("%d", &n);
6     for (i = 0; i < n; i++){
7         for (t = 0; t < n - i - 1; t++) printf(" ");
8         for (t = 0; t <= i; t++) printf("*");
9         printf("\n");
10    }
11    for (i = 1; i < n; i++){
12        for (t = 0; t < i; t++) printf(" ");
13        for (t = 0; t < n - i; t++) printf("*");
14        printf("\n");
15    }
16    return 0;
17 }
```

输出 终端 调试控制台 问题 11 2: Code + [] 删除

```
PS C:\Users\Administrator\Desktop\C\task\code> cd "c:\Users\Administrator\Desktop\C\task\code\" ;
if ($?) { gcc 6.c -o 6 } ; if ($?) { .\6 }
6
*
**
***
****
*****
*****
*****
****
***
**
*
```

行 14, 列 2 空格: 4 UTF-8 CRLF C W