

第5次作业

Ex2

5

Ex4

3

Ex7

0

Ex11

```
1  #include <stdio.h>
2
3  int main() {
4
5      int y, m;
6      scanf("%d %d", &y, &m);
7
8      if ((y % 4 == 0 && y % 100 != 0) || y % 400 == 0) && m == 2)
9          printf("29");
10     else {
11         if (m == 1 || m == 3 || m == 5 || m == 7 || m == 8 || m == 10 || m
12 == 12)
13             printf("31");
14         else if (m == 2)
15             printf("28");
16         else
17             printf("30");
18     }
19     return 0;
20 }
```

运行结果

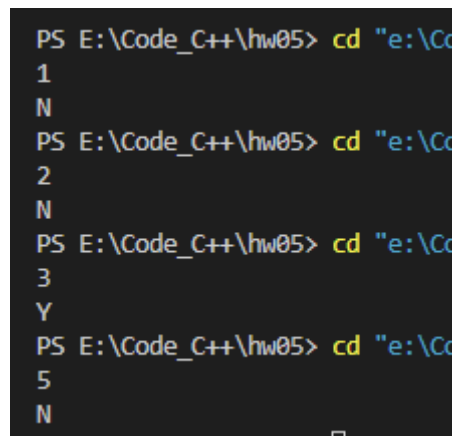
```
PS E:\Code_C++\hw05> cd "e:\Code_C++\hw05"
2000 2
29
PS E:\Code_C++\hw05> cd "e:\Code_C++\hw05"
2004 2
29
PS E:\Code_C++\hw05> cd "e:\Code_C++\hw05"
1900 2
28
PS E:\Code_C++\hw05> cd "e:\Code_C++\hw05"
2021 12
31
PS E:\Code_C++\hw05>
```

Ex14

源代码

```
1  #include <stdio.h>
2  #include <math.h>
3
4  int isroot(int x) {
5      if (pow(x, 4) - 3 * pow(x, 2) - 8 * x - 30 == 0)
6          return 1;
7      else
8          return 0;
9  }
10
11 int main() {
12
13     int x;
14     scanf("%d", &x);
15
16     if (isroot(x))
17         printf("Y");
18     else
19         printf("N");
20
21     return 0;
22 }
```

运行结果



```
PS E:\Code_C++\hw05> cd "e:\Co
1
N
PS E:\Code_C++\hw05> cd "e:\Co
2
N
PS E:\Code_C++\hw05> cd "e:\Co
3
Y
PS E:\Code_C++\hw05> cd "e:\Co
5
N
```

Ex19

```
1  #include <stdio.h>
2
3  int main() {
4
5      int a0, a1, a2, a3, a4, t;
6      printf("input a 4-digit number ");
7      scanf("%d", &a0);
8      if (a0 < 1000 || a0 > 9999) {
9          printf("invalid input");
10         return 0;
11     }
12 }
```

```

13     a1 = a0 % 10;
14     a2 = a0 % 100 / 10;
15     a3 = a0 % 1000 / 100;
16     a4 = a0 / 1000;
17
18     // 从大到小排列
19     if (a1 < a2) {
20         t = a1; a1 = a2; a2 = t;
21     }
22     if (a1 < a3) {
23         t = a1; a1 = a3; a3 = t;
24     }
25     if (a1 < a4) {
26         t = a1; a1 = a4; a4 = t;
27     }
28     if (a2 < a3) {
29         t = a2; a2 = a3; a3 = t;
30     }
31     if (a2 < a4) {
32         t = a2; a2 = a4; a4 = t;
33     }
34     if (a3 < a4) {
35         t = a3; a3 = a4; a4 = t;
36     }
37
38     printf("the max is: %d%d%d%d\n", a1, a2, a3, a4);
39     printf("the min is: %d%d%d%d\n", a4, a3, a2, a1);
40
41     return 0;
42 }

```

运行结果

```

PS E:\Code_C++\hw05> cd "e:\Code_C++\hw05\"
input a 4-digit number 3175
the max is: 7531
the min is: 1357
PS E:\Code_C++\hw05> 

```