# 四. 实验结果与分析

2

```
# include <stdio.h>
   int main()
      int min, x, y, *pmin, *px, *py;
      scanf("%d%d", &x, &y);
      pX = &X;
      py = &y;
      pmin = &min;
      *pmin = *px;
      if (*pmin > *py) *pmin = *py;
      printf("min=%d\n", min);
      return 0:
(1) 2 error(s) 4 warnings
   ① (10): error C2065: "min": 未声明的标识符
      (4): int min, x, y, *pmin, *px, *py;
   ② (8)(9)(10): warning C4047: "=":"int"与"int *"的间接级别不同
      (8): pX = &X;
      (9): px = &y;
      (10): pmin = &min;
(3) 错误行号: 11 正确语句: if (*pmin > *py);
   错误行号: 12 正确语句: *pmin = *py;
```

```
严永煜 2.c ₽ X
                                             ≦ ■ E:\MyCFile\try\Debug\严永煜_2.exe
   E:\MyCFile\try\严永煜 2\严永煜 2.c
                                   WARNINGS
     2
            # include <stdio.h>
                                               min=38
     3
                                               请按任意键继续...
     4
          ⊡int main()
     5
     6
                int min, x, y, *pmin, *px, *py;
     7
                scanf("%d%d", &x, &y);
     8
                px = &x;
     9
                py = &y;
    10
                pmin = &min;
    11
                *pmin = *px;
    12
                if (*pmin > *py) *pmin = *py;
    13
                printf("min=%d\n", min);
                system("pause");
    14
    15
                return 0;
    16
```

## 3-1

```
# include <stdio.h>
int tran(int year, int *month, int *day) {
    int cases=0;
    if ((year%4==0 && year%100!=0) | (year%400==0)) {
        if (*day>0&&*day<=31) cases=12;
        else if (*day>31&&*day<=60) cases=11;
        else if (*day>60&&*day<=91) cases=10;
        else if (*day>91&&*day<=121) cases=9;
        else if (*day>121&&*day<=152) cases=8;
        else if (*day>152\&\&*day<=182) cases=7;
        else if (*day>182&&*day<=213) cases=6;
        else if (*day>213&&*day<=244) cases=5;
        else if (*day>244&&*day<=274) cases=4;
        else if (*day>274\&*day<=305) cases=3;
        else if (*day>305&&*day<=335) cases=2;
        else if (*day>335&&*day<=366) cases=1;
        else cases=-1;
        switch(cases) {
            case 1: *month+=1;*day-=30;
            case 2: *month+=1;*day-=31;
            case 3: *month+=1;*day-=30;
            case 4: *month+=1;*day-=31;
            case 5: *month+=1;*day-=31;
            case 6: *month+=1;*day==30;
            case 7: *month+=1;*day-=31;
            case 8: *month+=1;*day-=30;
            case 9: *month+=1;*day-=31;
            case 10: *month+=1; *day-=29;
            case 11: *month+=1; *day-=31;
            case 12: *month+=1:break:
            default: return -1;
    else{
        if (*day>0&&*day<=31) cases=12;
        else if (*day>31&&*day<=59) cases=11;
        else if (*day>59&&*day<=90) cases=10;
        else if (*day>90&&*day<=120) cases=9;
        else if (*day>120&&*day<=151) cases=8;
        else if (*day>151&&*day<=181) cases=7;
        else if (*day>181&&*day<=212) cases=6;
```

```
else if (*day>212&&*day<=243) cases=5;
       else if (*day>243&&*day<=273) cases=4;
       else if (*day>273&&*day<=304) cases=3;
       else if (*day>304&&*day<=334) cases=2;
       else if (*day>334&&*day<=365) cases=1;
       else cases=-1;
       switch(cases) {
            case 1: *month+=1;*day-=30;
            case 2: *month+=1;*day-=31;
            case 3: *month+=1;*day-=30;
            case 4: *month+=1;*day-=31;
            case 5: *month+=1;*day-=31;
            case 6: *month+=1;*day-=30;
            case 7: *month+=1;*day-=31;
            case 8: *month+=1;*day-=30;
            case 9: *month+=1;*day-=31;
            case 10: *month+=1;*day-=28;
            case 11: *month+=1; *day-=31;
            case 12: *month+=1; break;
            default: return -1;
   return 1;
int main() {
    int year, day, month=0, *m=&month, *d=&day, isTrue=0;
    printf("请输入 Julian 历法的日期(年, 第几天):");
    scanf ("%d, %d", &year, &day);
    isTrue = tran(year, m, d);
    if (isTrue==1) printf("现代历法的日期是:%d 年%d 月%d 日\n", year, month, day);
    else printf("您输入的 Julian 日期有误!\n");
   return 0;
```

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| Table | Tab
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```
# include <stdio.h>
int search(int list[], int n, int x)
    for (int i=0; i < n; i++) if (*(list+i)==x) return i;
    return −1;
int main()
    int list[10], n, x, i, result;
    printf("Input n: ");
    scanf ("%d", &n);
    printf("Input %d integers: ", n);
    for (i=0; i < n; i++) scanf ("%d", list+i);
    printf("Input x: ");
    scanf ("%d", &x);
    result = search(list, n, x);
    if (result==-1) printf("Not found\n");
    else printf("Index=%d\n", result);
    return 0;
```

```
平永煜 3-2.c 增 ×
▼ 严永煜 3-2
                                               (全局范围 ■ E:\MyCFile\try\Debug\严永煜_3-2.exe
            # define _CRT_SECURE_NO_WARNINGS
                                                        Input n: 3
            # include <stdio.h>
                                                        Input 3 integers: 1 2 -6
     3
                                                        Input x: 2
           □int search(int list[], int n, int x)
     4
                                                        Index=1
     5
             {
                                                        请按任意键继续. . . _
     6
                int i:
     7
                for (i=0;i<n;i++)</pre>
     8
     9
                     if (*(list+i)==x) return i;
    10
    11
                return -1;
    12
    13
    14
           ∃int main()
    15
             {
                int list[10], n, x, i, result;
    16
    17
                printf("Input n: ");
                scanf ("%d", &n);
    18
                printf("Input %d integers: ",n);
    19
                for (i=0;i<n;i++) scanf("%d",list+i);</pre>
    20
                printf("Input x: ");
    21
    22
                scanf("%d", &x);
    23
                result = search(list, n, x);
    24
                if (result==-1) printf("Not found\n");
    25
                else printf("Index=%d\n", result);
    26
                system("pause");
                return O:
```

```
# include <stdio.h>
# include <string.h>
int Duplicate(char str[],char dest[],int n)
     char *p=str+n-1,*q=dest;
    if (n>strlen(str)) return -1;
    for (;*p!='\0';p++,q++)*q=*p;
    return strlen(dest);
int main()
{
     char str[100],dest[100]={'\0'};
    int n,num;
    printf("Input a string: ");
    scanf("%[^\n]",str);
    printf("Input a integer: ");
    scanf("%d",&n);
    num = Duplicate(str,dest,n);
    printf("Output is: %s, %d characters.\n",dest,num);
    return 0:
```

```
严永煜 3-3.c ≠ ×
▼ 严永煜 3-3
                                             (全局范围)
                                                         ■ E:\MyCFile\try\Debug\严永煜 3-3.exe
            # define _CRT_SECURE_NO_WARNINGS
                                                        Input a string: Happy new year
          ∃# include <stdio.h>
                                                        Input a integer: 7
           # include <string.h>
                                                        Output is: new year, 8 characters.
                                                        请按任意键继续. . . _
     5
          int Duplicate(char str[], char dest[], int n)
     6
            {
                char *p=str+n-1,*q=dest;
     8
                if (n>strlen(str)) return -1;
     9
                for (;*p!='\0';p++,q++) *q=*p;
    10
                return strlen(dest);
    11
    12
    13
          □int main()
    14
    15
                char str[100], dest[100]={' \0'};
    16
                int n, num;
    17
                printf("Input a string: ");
    18
                scanf("%[^\n]", str);
                printf("Input a integer: ");
    19
    20
                scanf ("%d", &n);
    21
                num = Duplicate(str, dest, n);
    22
                printf("Output is: %s, %d characters.\n"
    23
                system("pause");
    24
                return 0;
```

```
# include <stdio.h>
void average(int score[][4])
{
    int i,num,sum=0;
    printf("Please enter the class num: ");
    scanf("%d",&num);
    for (i=0;i<5;i++) sum +=*(*(score+i)+num-1);
    printf("The average score of class %d is: %.2f\n",num,sum/5.0);
void fail(int score[][4])
    int i,j,sum,num;
    printf("Students failed:\n");
    for (i=0;i<5;i++)
    {
         num = 0;
         sum = 0;
         for (j=0;j<4;j++)
         {
              sum += *(*(score+i)+j);
              if (*(score+i)+j)<60) num+=1;
         if (num > 1) printf("Num.%d score:%d %d %d %d average:%.2f\n",\
              i+1,*(*(score+i)+0),*(*(score+i)+1),*(*(score+i)+2),*(*(score+i)+3),sum/4.0);
    }
void passed(int score[[4])
    int i,j,sum,num;
    printf("Students passed:\n");
    for (i=0;i<5;i++)
         sum = 0;
         num = 4;
         for (j=0;j<4;j++)
         {
              sum += *(*(score+i)+j);
              if (*(score+i)+j)>85) num -= 1;
         if (num==0||sum/4.0>90) printf("Num.%d score:%d %d %d %d average:%.2f\n",\
              i+1,*(*(score+i)+0),*(*(score+i)+1),*(*(score+i)+2),*(*(score+i)+3),sum/4.0);
```

```
}
int main()
{
    int i, score[5][4];
    printf("Please input the score.Each student in one line:\n");
    for (i=0;i<5;i++) scanf("%d%d%d%d",&score[i][0],&score[i][1],&score[i][2],&score[i][3]);
    average(score);
    fail(score);
    passed(score);
    system("pause");
    return 0;
}
</pre>
```

```
严永煜 3-4.c ≠
▼严永煜 3-4
                                                      (全局范围)
                                                                    ■ E:\MyCFile\try\Debug\严永煜 3-4.exe
               # define _CRT_SECURE_NO_WARNINGS
                                                                             input the score. Each student in one line:
                                                                   Please input
99 98 99 87
89 87 87 89
54 56 97 98
54 53 52 51
77 77 77
              # include (stdio.h)
            pvoid average(int score[][4])
                   int i, num, sum=0;
                   printf("Please enter the class num: ");
                                                                   Please enter the class num: 4
                   scanf ("%d", &num);
      8
                                                                   The average score of class 4 is: 80.40 Students failed:
      9
                   for (i=0;i<5;i++) sum += *(*(score+i)+nur</pre>
     10
                   printf("The average score of class %d is
                                                                   Num. 3 score:54 56 97 98 average:76.25
Num. 4 score:54 53 52 51 average:52.50
     11
     12
                                                                   Students passed:
                                                                   Num.1 score:99 98 99 87 average:95.75
Num.2 score:89 87 87 89 average:88.00
请按任意键继续...
            evoid fail(int score[][4])
     13
     14
     15
                   int i, j, sum, num;
     16
                   printf("Students failed:\n");
     17
                   for (i=0;i<5;i++)
     18
     19
                        num = 0;
     20
                        sum = 0;
                        for (j=0;j<4;j++)
     21
     22
     23
                             sum += *(*(score+i)+j);
     24
                            if (*(*(score+i)+j)<60) num+=1;</pre>
     25
     26
                        if (num > 1) printf("Num. %d score:%d
```