

## 第14周-17377191-段秋阳

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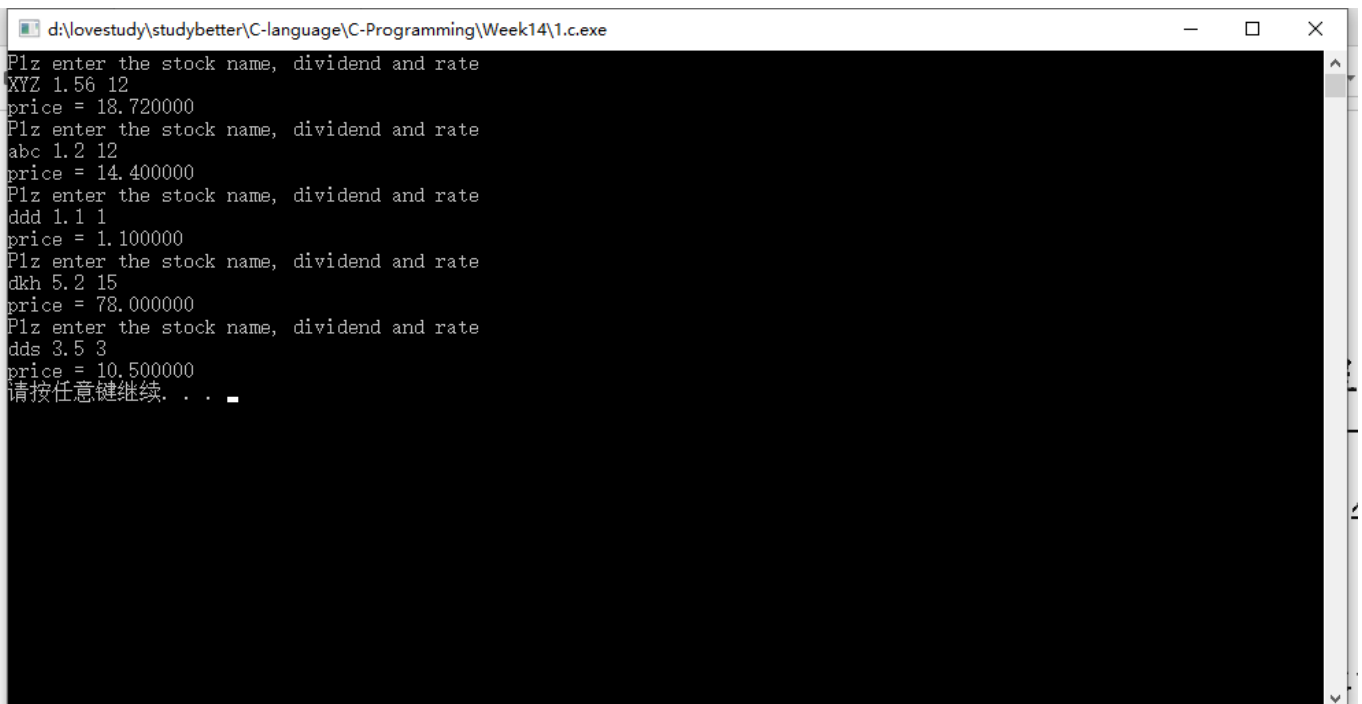
### 1. P452, 第2题

```
//P452 2
#include <stdio.h>
#include <stdlib.h>

typedef struct
{
    char name[20];
    double div;
    double rate;
} Stock;

int main()
{
    for (int i = 0; i < 5; i++)
    {
        Stock stock;
        printf("Plz enter the stock name, dividend and rate\n");
        scanf("%s %lf %lf", &stock.name, &stock.div, &stock.rate);
        printf("price = %lf\n", stock.div * stock.rate);
    }

    system("pause");
    return 0;
}
```



```
d:\lovestudy\studybetter\C-language\C-Programming\Week14\1.c.exe
Plz enter the stock name, dividend and rate
XYZ 1.56 12
price = 18.720000
Plz enter the stock name, dividend and rate
abc 1.2 12
price = 14.400000
Plz enter the stock name, dividend and rate
ddd 1.1 1
price = 1.100000
Plz enter the stock name, dividend and rate
dkh 5.2 15
price = 78.000000
Plz enter the stock name, dividend and rate
dds 3.5 3
price = 10.500000
请按任意键继续. . .
```

## 2. P456, 第4题

```
//P456,4
#include <stdio.h>
#include <stdlib.h>

typedef struct
{
    int number;
    int miles;
    int gallons;
} carLog;

int main()
{
    int totalMiles = 0, totalGals = 0;
    carLog logs[5];

    for (int i = 0; i < 5; i++)
    {
        scanf("%d %d %d", &logs[i].number, &logs[i].miles,
&logs[i].gallons);
        totalMiles += logs[i].miles;
        totalGals += logs[i].gallons;
    }

    printf("-----\n");
    printf("number  miles/gallon\n");
    for (int i = 0; i < 5; i++)
        printf("%d\t%d\n", logs[i].number, logs[i].miles /
logs[i].gallons);
    printf("team:\t%d\n", totalMiles / totalGals);
    printf("-----\n");

    system("pause");
    return 0;
}
```

```
d:\lovestudy\studybetter\C-language\C-Programming\Week14\2.c.exe
25 1450 62
36 3240 136
44 1792 76
52 2360 105
68 2114 67
-----
number miles/gallon
25      23
36      23
44      23
52      22
68      31
team:   24
-----
请按任意键继续. . .
```

### 3. P462, 第2题

```
//P462 2
#include <stdio.h>
#include <stdlib.h>

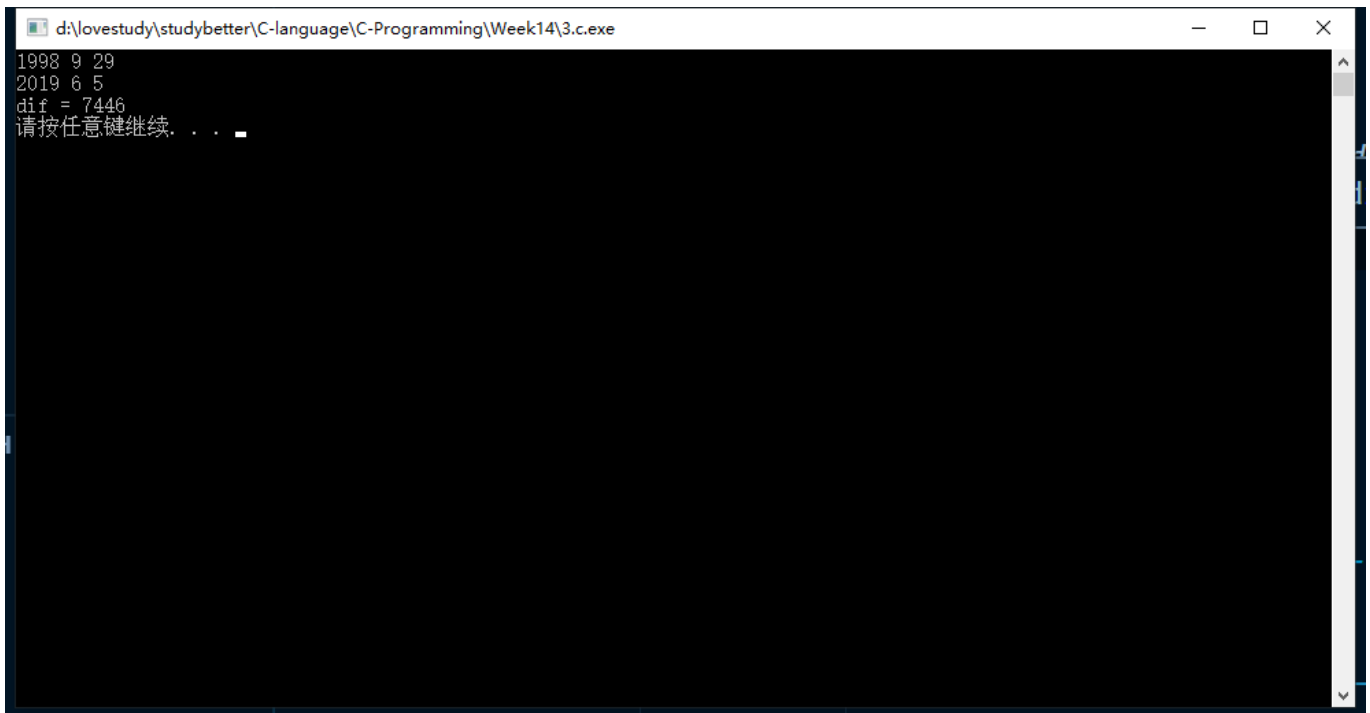
struct Date
{
    int month;
    int day;
    int year;
};

int days(Date);
int difDays(Date, Date);

int main()
{
    struct Date date1, date2;
    scanf("%d %d %d", &date1.year, &date1.month, &date1.day);
    scanf("%d %d %d", &date2.year, &date2.month, &date2.day);
    printf("dif = %d\n", difDays(date1, date2));
    system("pause");
    return 0;
}

int days(struct Date date)
{
    return (date.year - 1900) * 360 + (date.month - 1) * 30 + (date.day - 1);
}
```

```
int difDays(struct Date date1, struct Date date2)
{
    return days(date2) - days(date1);
}
```



```
d:\lovestudy\studybetter\C-language\C-Programming\Week14\3.c.exe
1998 9 29
2019 6 5
dif = 7446
请按任意键继续. . .
```

#### 4. P462, 第4题

```
//P462 4
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#define M 20

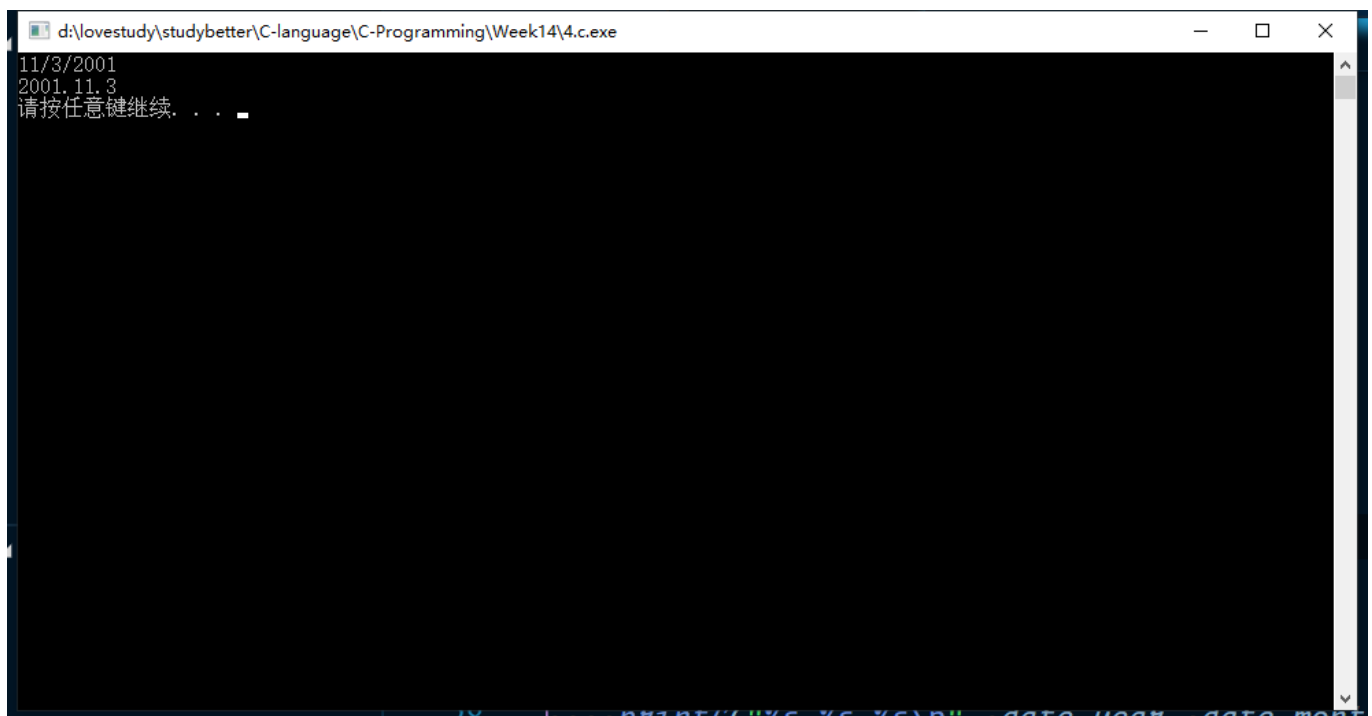
typedef struct
{
    char *month;
    char *day;
    char *year;
} Date;

char *larger(char *, char *);

int main()
{
    Date date;
    char date1[M], date2[M];
    strcpy(date1, "10/9/2001");
    strcpy(date2, "11/3/2001");
    char *ret = larger(date1, date2);
    printf("%s\n", ret);
    const char sep[2] = "/";
```

```
    date.month = strtok(ret, sep);
    date.day = strtok(NULL, sep);
    date.year = strtok(NULL, sep);
    printf("%s.%s.%s\n", date.year, date.month, date.day);
    system("pause");
    return 0;
}

char *larger(char *date1, char *date2)
{
    return (strcmp(date1, date2) > 0) ? date1 : date2;
}
```



```
d:\lovestudy\studybetter\C-language\C-Programming\Week14\4.c.exe
11/3/2001
2001.11.3
请按任意键继续. . . .
```

## 5. 《现代方法（2）》 P293, 第5题

```
// 《现代方法》 P293,5
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <math.h>
#define M 1
#define LEN 20

typedef struct
{
    int dep;
    int arr;
} Flight;

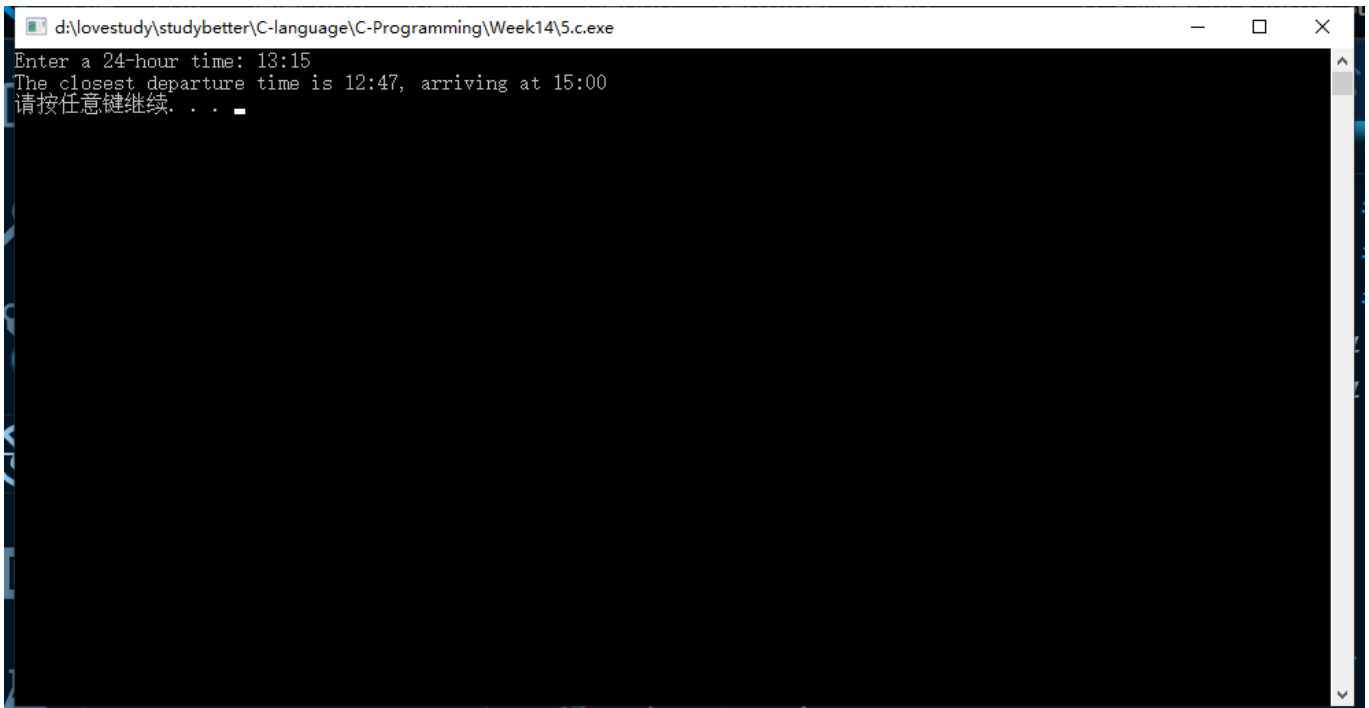
int main()
{
```

```
Flight flight[8];
int hour, min, dif = 10000, j = 0;

flight[0].dep = 480, flight[0].arr = 616;
flight[1].dep = 583, flight[1].arr = 712;
flight[2].dep = 679, flight[2].arr = 811;
flight[3].dep = 767, flight[3].arr = 900;
flight[4].dep = 840, flight[4].arr = 968;
flight[5].dep = 945, flight[5].arr = 1075;
flight[6].dep = 1140, flight[6].arr = 1280;
flight[7].dep = 1305, flight[7].arr = 1438;

printf("Enter a 24-hour time: ");
scanf("%d:%d", &hour, &min);

for (int i = 0; i < 8; i++)
    if (dif > abs(60 * hour + min - flight[i].dep))
    {
        dif = abs(60 * hour + min - flight[i].dep);
        j = i;
    }
printf("The closest departure time is %d:%02d, arriving at %d:%02d\n",
flight[j].dep / 60, flight[j].dep % 60, flight[j].arr / 60, flight[j].arr %
60);
system("pause");
return 0;
}
```



```
d:\lovestudy\studybetter\C-language\C-Programming\Week14\5.c.exe
Enter a 24-hour time: 13:15
The closest departure time is 12:47, arriving at 15:00
请按任意键继续. . .
```