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## Chapter 12 Programming Exercises

```
12.2 #4
```

```
#define _CRT_SECURE_NO_WARNINGS// or scanf_s
#include <stdio.h>
#include <math.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <ctype.h>
struct CAR {
        int car_num, miles_driven, gallons_used;
car[5] = {
        {25,1450,62},
        {36,3240,136},
        {44,1792,76},
        {52,2360,105},
        {68,2114,67}
};
int main() {
        double sum=0;
        printf("----report----\n");
       for (int i = 0; i < 5; i++) {
    printf("CAR NUM: %d MILES PER GALLON: %f\n",</pre>
car[i].car_num,(double)car[i].miles_driven / (double)car[i].gallons_used);
                sum += (double)car[i].miles_driven / (double)car[i].gallons_used;
        printf("Average miles per gallon achieved by five cars : %f", sum / 5.0);
        return 0;
                                    Build started...
1>----- Build started: Project: Project2, Configuration: Debug x64 --
```

## 12.3 #1

```
#define _CRT_SECURE_NO_WARNINGS// or scanf_s
#include <stdio.h>
#include <math.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <ctype.h>
int Days(struct Date dat);
struct Date {
       int month;
       int day;
       int year;
};
int main() {
       struct Date date, differnce_date;
       printf("----test_sets----\n");
       for (int i = 0; i < 5; i++) {
               date.month = 1 + i;
               date.day = 10 + i;
               date.year = 2000 + 10 * i;
               differnce_date.day = Days(date);
               printf("test num : %d date : %d/%d/%d number of days : %d\n", i+1,
```

```
date.month, date.day, date.year, differnce_date.day);
         printf("----\n");
         return 0;
int Days(struct Date dat) {
         dat.day = dat.day - 1 + (dat.month - 1) * 30 + (dat.year - 2000) * 360;
         return dat.day;
                                             Build started...
1>------ Build started: Project: Project2, Configuration: Debug x64 ------
1>소소.c
 number of days
                                             9
3640
7271
10902
14533
 :#Users#한용재#source#repos#Project2#x64#Debug#Project2.exe (process 5856) exited with code 0.
ress any key to close this window . . .
```

```
12.3 #3
```

```
#define CRT SECURE NO WARNINGS// or scanf s
#include <stdio.h>
#include <math.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <ctype.h>
void Days(struct Date dat[]);
struct Date {
        int month;
        int day;
        int year;
}date[5] = {
                {1,1,2000},
                {4,25,2002},
                {11,30,2007},
                {10,7,2020},
                {9,24,2021}
};
struct Date differnce_date;
int main() {
        printf("----test_sets----\n");
        for (int i = 0; i < 5; i++) {
                Days(date+i);
                printf("test num : %d date : %d/%d/%d number of days : %d\n", i+1,
date[i].month, date[i].day, date[i].year, differnce_date.day);
        printf("----\n");
        return 0;
void Days(struct Date dat[]) {
        differnce_date.day = dat->day - 1 + (dat->month - 1) * 30 + (dat->year - 2000)
* 360;
Output
                                                 Show output from: Build
 Build started...
      -- Build started: Project: Project2, Configuration: Debug x64 --
 1>Project2.vcxproj -> C:\Users\한웅재\source\repos\Project2\x64\Debug\Project2.exe
    ===== Build: 1 succeeded, O failed, O up-to-date, O skipped ==
```

```
multiple of days in the state of the state
```

## 12.3 #4

```
#define _CRT_SECURE_NO_WARNINGS// or scanf_s
#include <stdio.h>
#include <math.h>
#include <stdlib.h>
#include <string.h>
#include <time.h>
#include <ctype.h>
struct Date recent(struct Date d1[], struct Date d2[]);
struct Date {
                               int month;
                                int day;
                               int year;
dat1[5] = \{ \{10,4,2001\}, \{4,25,2002\}, \{4,7,2010\}, \{7,5,2021\}, \{5,7,2015\} \}, dat2[5] = \{ \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,2001\}, \{10,4,
{ {12,30,2001},{2,4,2000},{1,1,2009},{6,14,2014},{5,7,2015} }, dat3[5];
int main() {
                               printf("----test_sets----\n");
                               for (int i = 0; i < 5; i++) {
                                                              dat3[i]=recent(dat1+i,dat2+i);
                                                              printf("Test Num : %d Date(1) : %d/%d/%d Date(2) : %d/%d/%d -->> THE
LATER DATE: %d/%d/%d\n",i+1, dat1[i].month,dat1[i].day,dat1[i].year,
dat2[i].month,dat2[i].day, dat2[i].year, dat3[i].month, dat3[i].day, dat3[i].year);
```

```
return 0;
struct Date recent(struct Date d1[], struct Date d2[]) {
           if (d1->day + d1->month * 30 + d1->year * 360 > d2->day + d2->month * 30 + d2-
>year * 360) {
                       return *d1;
           }
           else
                       return *d2;
}
 Output
                                                                                       T 을 늘 글 목 글 라
 Show output from: Build
  Build started...
  1>----- Build started: Project: Project2, Configuration: Debug x64 -----
  1>소스.c
  1>Project2.vcxproj -> C:베Jsers#한웅재#source#repos#Project2#x64#Debug#Project2.exe
  ====== Build: 1 succeeded, 0 failed, 0 up-to-date, 0 skipped ========
                                           ): 12/30/2001 -->> THE LATER DATE : 12/30/2001

): 2/4/2000 -->> THE LATER DATE : 4/25/2002

: 1/1/2009 -->> THE LATER DATE : 4/7/2010

: 6/14/2014 -->> THE LATER DATE : 7/5/2021

: 5/7/2015 -->> THE LATER DATE : 5/7/2015
 :#Users#한용재#source#repos#Project2#x64#Debug#Project2.exe (process 17668) exited with code 0.
ress any key to close this window . . . .
```