

C 2
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- 1 " struct stu {int a, b;} student;"
D)scanf("%d",&student.a)
A. scanf("%d",&a) B. scanf("%d",&student)
C. scanf("%d",&stu.a) D. scanf("%d",&student.a)
- 2 " struct cmplx{
int x;
int y;
}c[]={1,2,3,4};"
A. c[0].y B. y C. c.y[0] D. c.y[1]
- 3 " union u{
int a;
int b;
float c;
}vu;
vu.a=1; vu.b=2; vu.c=3;"
A. 1 B. 2 C. 3 D. A B C
D)A B C
- 4 " union u{char a; int b;}vu;" VC char 1 int
4 vu B)4
A. 1 B. 4 C. 5 D. 8
- 5 " union u{int a; int b}vu={1,2};" , D)
A. a b 1
B. a b 2
C. a 1 b 2
D.
- 6 " enum date{year,month,day}d;" A)date d
year
A. date d year
B. date d year
C. date d year
D. date d year
- 7 " enum date{year,month,day}d;" B)d=year
A. year=1 B. d=year C. d="year" D. date="year"
- 8 " typedef struct stu{int a,b}student;" C)student
year
A. stu B. student
B. student D. a b
- 9 typedef C)typedef

- A. typedef
- B. typedef
- C. typedef
- D. typedef

1

struct {			
name char[10];	name	10	
telephone	telephone	20	char[20];
address	address	100	char[100];
};			

2

```
#include <stdio.h>
#include <math.h>
void main()
{
    struct Point
    {
        float x;
        float y;
    }a,b;
    printf("    a        :\n");
    scanf("%f", &a.x);
    printf("    a        :\n");
    scanf("%f", &a.y);
    printf("    b        :\n");
    scanf("%f", &b.x);
    printf("    b        :\n");
    scanf("%f", &b.y);
    printf("a b          :%f\n", sqrt( (a.x - b.x)*(a.x - b.x) + (a.y - b.y)*(a.y - b.y) ));
}
```

3

```
#include <iostream>
#include <stdio.h>
using namespace std;
#define DAY_OF_YEAR 365 //
//
typedef struct date
{
    int year;
    int month;
```

```

    int day;
    int day_of_year; //
}DATE, *DATE_P;
//
bool compear(DATE_P max, DATE_P min);
int titoal(DATE_P date);
bool leap_year(const int year);
int funtion(DATE_P max , DATE_P min);
//
void main()
{
    DATE date_1, date_2;           //
    DATE_P max, min;               //max           min
    int result;
    //
    printf("           1           \n");
    scanf("%d%d%d", &date_1.year, &date_1.month, &date_1.day);
    printf("           2           \n");
    scanf("%d%d%d", &date_2.year, &date_2.month, &date_2.day);
    //
    if( !compear(max=&date_1, min=&date_2) ) //           ,
        result = funtion(max, min);
    else //
        result = funtion(min, max);
    //
    printf("           %d\n", result);
}
//
bool compear(DATE_P max, DATE_P min)
{
    //max           min
    if((max->year < min->year)) //max           min
        return 1;
    else if((max->year == min->year)) //max   min
    {
        if((max->month < min->month)) //max           min
            return 1;
        else if((max->month == min->month)) //max   min
            if((max->day < min->day)) //max           min
                return 1;
    }
    //           max           min
    return 0;
}

```

```

//
int funtion(DATE_P max , DATE_P min)
{
    //
    if(max->year == min->year)
    {
        //
        max->day_of_year = titoal(max); //
        if( leap_year(max->year) ) //
            if( (max->month==2 && max->day==29) || max->month>2)
                max->day_of_year ++;
        //
        min->day_of_year = titoal(min);
        if( leap_year(min->year) ) //
            if( (min->month==2 && min->day==29) || min->month>2)
                min->day_of_year ++;
        //
        return max->day_of_year - min->day_of_year;
    }
    //
    int max_year, min_year, other_year=0;
    //
    max->day_of_year = titoal(max);
    if( leap_year(max->year) ) //
        if( (max->month==2 && max->day==29) || max->month>2)
            max->day_of_year ++;
    max_year = max->day_of_year;
    //
    min->day_of_year = titoal(min);
    if( leap_year(min->year) ) //
        if( (min->month==2 && min->day==29) || min->month>2)
            min->day_of_year ++;
    min_year = DAY_OF_YEAR - min->day_of_year; //
    if( leap_year(min->year) ) //
        min_year ++;
    //
    int year;
    for(year=min->year+1 ; year< max->year ; year++)
        other_year+=DAY_OF_YEAR+leap_year(year);//
    //
    return max_year + min_year + other_year;
}
//
int titoal( DATE_P date)

```

```

{
    int result=0; //
    int i; //
    for(i=1 ; i< date->month ; i++) //
    {
        switch(i)
        {
            case 1:
            case 3:
            case 5:
            case 7:
            case 8:
            case 10:result += 31;break;// 31 12
            case 4:
            case 6:
            case 9:
            case 11:result += 30;break;// 31
            default:result += 28; //2 28
        }
    }
    return result += date->day; //
}
// 1 0
bool leap_year(const int year)
{
    if( !(year%4) && year%100 || !(year%400) )
        return 1;
    return 0;
}

```

4

```

#include <stdio.h>
struct com{
    int real;
    int im;
};
void main()
{
    struct com a,b,c;
    struct com cmult(struct com creal,struct com cim);
    int i,j;
    printf(" ");
    scanf("%d%d%d%d",&a.real,&a.im,&b.real,&b.im);
    c=cmult(a,b);
}

```

```

printf("          %d+%di",c.real,c.im);
}
struct com cmult(struct com creal,struct com cim) /*          */
{
    struct com a;
    a.real=creal.real*cim.real-creal.im*cim.im;
    a.im=creal.real*cim.im+creal.im*cim.real;
    return(a);
}
/*          a+bi      c+di          (a+c)+(b+d)i          (ac-bd)+(ad+bc)i
*/

```

```

5      20      num      name      sex      5
      score[5]

```

```

#include <stdio.h>
#define N 2
void main()
{
    struct student
    {
        int num;
        char name[10];
        char sex[10];
        int score[5];
        int sum;
        float average;
    };
    struct student stu[N],s;
    int i,j;
    for(i=0;i<N;i++)
    {
        stu[i].sum=0;
        stu[i].average=0;
        printf("please scanf num name sex score(1) score(2) score(3) score(4) score(5)\n");
        scanf("%d%s%s",&stu[i].num,stu[i].name,stu[i].sex);
        for(j=0;j<5;j++)
        {
            scanf("%d",&stu[i].score[j]);
            stu[i].sum+=stu[i].score[j];
        }
        stu[i].average=stu[i].sum/5.0;
    }
    for(i=0;i<N;i++)

```

```

{
    printf("num name sex score(1) score(2) score(3) score(4) score(5) sum average\n");
    printf("%d %s %s ", stu[i].num, stu[i].name, stu[i].sex);
    for(j=0;j<5;j++)
    {
        printf("%d ",stu[i].score[j]);
    }
    printf("%d ", stu[i].sum);
    printf("%f ", stu[i].average);
    printf("\n");
}
}

```

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3

2

```

#include <stdio.h>
#include <string.h>
void main()
{
    enum Color{Red, Yellow, White};
    enum Color i, j;
    for(i = Red; i <= White; i = (Color)(i + 1))
    {
        for(j = i; j <= White; j = (Color)(j + 1))
        {
            char s1[3], s2[3];
            switch(i)
            {
                case 0: strcpy(s1, " "); break;
                case 1: strcpy(s1, " "); break;
                case 2: strcpy(s1, " "); break;
            }
            switch(j)
            {
                case 0: strcpy(s2, " "); break;
                case 1: strcpy(s2, " "); break;
                case 2: strcpy(s2, " "); break;
            }
            printf("%s %s\n",s1,s2);
        }
    }
}

```

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