11月21日作业

1、

#include<stdio.h>

main()

{

struct date

{

int y;

int m;

int d;

};

struct date f;

printf("请输入年，月，日：");

scanf("%d %d %d", &f.y, &f.m, &f.d);

printf("日期为%4d-%2d-%2d\n", f.y, f.m, f.d);

}

2、

#include<stdio.h>

#include<string.h>

struct stu

{

int num;

char na[20];

double sc[5];

double to;

};

/\*下面编写输入学生信息的函数\*/

void shu(struct stu t[], int n)

{

int i, k;

double f1, f2, f3, f4, f5;

char name[20];

for (i = 0; i < n; i++)

{

printf("请输入第个%d学生的学号，姓名，三科成绩：", i + 1);

scanf("%d %s %lf %lf %lf %lf %lf", &k, name, &f1, &f2, &f3, &f4, &f5);

t[i].num = k;

strcpy(t[i].na, name);

t[i].sc[0] = f1;

t[i].sc[1] = f2;

t[i].sc[2] = f3;

t[i].sc[3] = f4;

t[i].sc[4] = f5;

}

return 0;

}

/\*下面编写一个计算总分的函数\*/

void zong(struct stu t[], int n)

{

int i, k;

for (i = 0; i < n; i++)

{

t[i].to = 0.0;

for (k = 0; k < 5; k++)

{

t[i].to += t[i].sc[k];

}

}

}

/\*下面编写给总分排序的函数\*/

void pz(struct stu \*t[], int n)

{

int i, j, k;

struct stu\* w;

for (i = 0; i < n - 1; i++)

{

k = i;

for (j = i + 1; j < n; j++)

if (t[j]->to < t[k]->to)

k = j;

if(k!=i)

{

w = t[i]; t[i] = t[k]; t[k] = w;

}

}

}

/\*下面编写输出信息的函数\*/

void c(struct stu t[], int n)

{

int i, v, flag = 1;

printf("请输入要查找的学号：");

scanf("%d", &v);

for (i = 0; i < n; i++)

{

if (v == t[i].num)

{

printf("%-8d %-10s %-7.2lf %-7.2lf %-7.2lf %-7.2lf %-7.2lf %-7.2lf",

t[i].num,t[i].na,t[i].sc[0],t[i].sc[1],t[i].sc[2],t[i].sc[3],t[i].sc[4],

t[i].to);

flag = 0;

}

}

if (flag)

printf("查无此人");

}

int main()

{

struct stu s[20];

int n, i;

printf("请输入登记学生个数：");

scanf("%d", &n);

while (n > 20)

{

printf("超过20人，请重新输入n：");

scanf("%d", &n);

}

shu(s, n);

zong(s, n);

struct stu \*p[20];

for (i = 0; i < 20; i++)

p[i] = &s[i];

pz(p, n);

c(s, n);

return 0;

}

11、

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

struct stud\_node {

int num;

char name[20];

int grade;

struct stud\_node\* next;

};

struct stud\_node\* head, \* tail;

void input();

int main()

{

struct stud\_node\* p;

head = tail = NULL;

printf("输入各成绩（输入0 0 0以结束）：\n");

input();

for (p = head; p != NULL; p = p->next)

printf("%d %s %d\n", p->num, p->name, p->grade);

return 0;

}

void input()

{

struct stud\_node\* p;

int num; char name[20]; int grade;

p = NULL;

scanf("%d %s %d", &num, &name, &grade);

while (num != 0) {

p = (struct stud\_node\*)malloc(sizeof(struct stud\_node));

p->num = num;

strcpy(p->name, name);

p->grade = grade;

p->next = NULL;

if (head == NULL) {

head = p;

tail = p;

}

else {

tail->next = p;

tail = p;

}

scanf("%d %s %d", &num, &name, &grade);

}

}