PB22111711

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第九次纸质作业12.7

第15题

#include<stdio.h>

#include<string.h>

#define N 11

char M[N];

char \*get(){

char \*p = M;

int l=0;

\*p = getchar();

while(\*p != '\n'&& \*p != '\0'){

p++;

l++;

if(l==(N-1)) break;

\*p = getchar();

}

if(\*p =='\n'){

l--;

\*p = '\0';

}else if(\*p!='\0') \*(p++)='\0';

return p;//尾指针

}

void put(char \*p){

p--;

while(p>=M){

printf("%c",\*p);

p--;

}

}

int main(){

char \*p = get();

put(p);

return 0;

}

第18题

#include<stdio.h>

#define TotalStuNumber 30

struct strStudent {

long int lNum;

char strName[20];

float fScore[3];

float fAver;

};

void inData(struct strStudent stu[]){

short int i;

printf("请依次输入学生学号、姓名和三科成绩：\n");

for(i=0;i<TotalStuNumber;i++){

scanf("%d%s%f%f",&stu[i].lNum,&stu[i].strName,&stu[i].fScore[0],&stu[i].fScore[1],&stu[i].fScore[2]);

stu[i].fAver = (stu[i].fScore[0]+stu[i].fScore[1]+stu[i].fScore[2])/3;

}

return ;

}

struct strStudent \*HighScore(struct strStudent stu[]){

short int i;

short int nWho = 0;

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

if(stu[i].fAver>stu[nWho].fAver)

nWho = i;

return stu + nWho;

}

void outData(struct strStudent \*pstu){

printf("成绩最高的学生：\n");

printf("学号:%ld\n姓名:%s\n",pstu->lNum ,pstu->strName );

printf("成绩:%5.1f,%5.1f,%5.1f\n平均成绩:%6.2f\n",

pstu->fScore[0],pstu->fScore[1],pstu->fScore[2],pstu->fAver );

return;

}

void paixu(strStudent stu[]){

for(int i=0;i<TotalStuNumber-1;i++){

for(int j=0;j<TotalStuNumber-1;j++){

if(stu[i].fAver>stu[i].fAver){

float temp = stu[i].fAver;

stu[i].fAver = stu[i].fAver;

stu[j].fAver = temp;

}

}

}

return;

}

void Printf(strStudent \*p){

printf("降序排列为：\n");

for(int i=0;i<TotalStuNumber;i++){

printf("学号；%5.1d 姓名：%s 平均分：%5.f\n",

p->lNum ,p->strName ,p->fAver );

p++;

}

return;

}

int main(){

strStudent stu[TotalStuNumber];

strStudent \*ps = stu;

inData(ps);

outData(HighScore(ps));

paixu(ps);

Printf(ps);

return 0;

}