```
#include <stdio.h>
#include <stdlib.h>
struct Student { //结构体定义
    int id; //学生 ID
    char name[30]; //学生名字
    char gender[5]; //学生性别
    double scores[5]; //学生各科分数
    double avgScore; //学生平均分数
};
void main(){
   double sum=0;
    struct Student stu; //定义学生 stu
    printf("Please input the student's ID : ");
    scanf("%d",&stu.id);
    printf("Please input the student's name : ");
    scanf("%s",&stu.name);
    printf("Please input the student's gender(boy / girl) : ");
    scanf("%s",&stu.gender);
    for(int i=0;i<5;i++){</pre>
        printf("Please input the student's score - %d/5 : ",i+1);
        scanf("%lf",&stu.scores[i]);
        sum+=stu.scores[i];
    }
    stu.avgScore=sum/5.0; //计算平均分
    printf("\n");
    printf("The student's ID is : %d\n",stu.id);
    printf("The student's name is : %s\n",stu.name);
    printf("The student's gender is : %s\n",stu.gender);
   for(int i=0;i<5;i++){</pre>
        printf("The student's score - %d/5 is %lf: \n",i+1,stu.scores[i]);
    }
   printf("The student's avgscore is : %lf\n",stu.avgScore);
}
```

```
C:\Users\cnyvf>cd "c:\Users\cnyvf\Documents\C\" && gcc
Ex3.c -o Ex3 && "c:\Users\cnyvf\Documents\C\"Ex3
Please input the student's ID : 233455
Please input the student's name : hello
Please input the student's gender(boy / girl) : boy
Please input the student's score - 1/5: 30
Please input the student's score - 2/5 : 40
Please input the student's score - 3/5 : 50
Please input the student's score - 4/5 : 60
Please input the student's score - 5/5 : 70
The student's ID is: 233455
The student's name is : hello
The student's gender is: boy
The student's score - 1/5 is 30.000000:
The student's score - 2/5 is 40.000000:
The student's score - 3/5 is 50.000000:
The student's score - 4/5 is 60.000000:
The student's score - 5/5 is 70.000000:
The student's avgscore is: 50.000000
```

终端

```
#include <stdio.h>
#include <stdlib.h>
struct Student {
                 //结构体定义
   int id; //学生 ID
   char name[30]; //学生名字
   char gender[5]; //学生性别
   double scores[4]; //学生各科分数
   double avgScore;
                    //学生平均分数
};
void main(){
   struct Student stu[6]; //定义学生 stu
   int max=0; //记录最大值
              //记录最大值的位置
   int maxi;
   for(int n=0;n<6;n++){ //循环输入
       double sum=0;
       printf("Please input the %d/6 student's ID : ",n+1);
       scanf("%d",&stu[n].id);
       printf("Please input the %d/6 student's name : ",n+1);
       scanf("%s",&stu[n].name);
```

```
printf("Please input the %d/6 student's gender(boy / girl) : ",n+1);
        scanf("%s",&stu[n].gender);
        for(int i=0;i<4;i++){</pre>
            printf("Please input the %d/6 student's score - %d/4 : ",n+1,i+1);
            scanf("%lf",&stu[n].scores[i]);
            sum+=stu[n].scores[i];
        stu[n].avgScore=sum/4.0; //计算平均分
        if(stu[n].avgScore>max){
            max=stu[n].avgScore;
            maxi=n;
        }
        printf("\n");
    }
    printf("\n");
    printf("The student's ID is : %d\n",stu[maxi].id);
    printf("The student's name is : %s\n",stu[maxi].name);
    printf("The student's gender is : %s\n",stu[maxi].gender);
    for(int i=0;i<4;i++){</pre>
        printf("The student's score - %d/5 is %lf: \n",i+1,stu[maxi].scores[i])
;
    }
    printf("The student's avgscore is : %lf\n",stu[maxi].avgScore);
}
```

```
C:\Users\cnyvf>cd "c:\Users\cnyvf\Documents\C\" && gcc
Ex3.c -o Ex3 && "c:\Users\cnyvf\Documents\C\"Ex3
Please input the 1/6 student's ID : 1
Please input the 1/6 student's name : a
Please input the 1/6 student's gender(boy / girl) : bo
 Please input the 1/6 student's score - 1/4 : 1
Please input the 1/6 student's score - 2/4 : 1
Please input the 1/6 student's score - 3/4 : 1
Please input the 1/6 student's score - 4/4 : 1
 Please input the 2/6 student's ID : 2
Please input the 2/6 student's name : b
Please input the 2/6 student's gender(boy / girl) : gi
 Please input the 2/6 student's score - 1/4 : 2
Please input the 2/6 student's score - 2/4 : 2
Please input the 2/6 student's score - 3/4 : 2
Please input the 2/6 student's score - 4/4 : 2
Please input the 3/6 student's ID : 3
Please input the 3/6 student's name : c
Please input the 3/6 student's gender(boy / girl) : boy
Please input the 3/6 student's score - 1/4 : 3
Please input the 3/6 student's score - 2/4 : 3
Please input the 3/6 student's score - 3/4 : 3
Please input the 3/6 student's score - 4/4 : 3
Please input the 4/6 student's ID : 4
Please input the 4/6 student's name : d
Please input the 4/6 student's gender(boy / girl) : girl
Please input the 4/6 student's score - 1/4 : 4
Please input the 4/6 student's score - 2/4 : 4
Please input the 4/6 student's score - 3/4 : 4
Please input the 4/6 student's score - 4/4 : 4
Please input the 5/6 student's ID : 5
Please input the 5/6 student's name : e
Please input the 5/6 student's gender(boy / girl) : boy
Please input the 5/6 student's score - 1/4 : 5
Please input the 5/6 student's score - 2/4 : 5
Please input the 5/6 student's score - 3/4 : 5
Please input the 5/6 student's score - 4/4 : 5
Please input the 6/6 student's ID : 6
Please input the 6/6 student's name : f
Please input the 6/6 student's gender(boy / girl) : girl
Please input the 6/6 student's score - 1/4 : 6
Please input the 6/6 student's score - 2/4 : 6
Please input the 6/6 student's score - 3/4 : 6
Please input the 6/6 student's score - 4/4 : 6
The student's ID is: 6
The student's name is: f
The student's gender is: girl
The student's score - 1/5 is 6.000000:
The student's score - 2/5 is 6.000000:
The student's score - 3/5 is 6.000000:
The student's score - 4/5 is 6.000000:
The student's avgscore is: 6.000000
```

```
#include <stdio.h>
#include <stdlib.h>
                  //结构体定义
struct carSell {
    char name[20];
    char model[20];
    char color[20];
    int price;
};
int cmp(const void *a, const void *b) { //快速排序判断函数
    struct carSell xx=*(struct carSell*)a;
    struct carSell yy=*(struct carSell*)b;
    return xx.price-yy.price;
}
void main() {
    struct carSell car[4]={{"Toyota","alphard","white",870000},{"Honda","crv","
black",188800},{"Tesla","models","red",1270000},{"Benz","G63","black",2459000}}
; //初始化
    qsort(car, 4, sizeof(car[0]), cmp); //快速排序
    for(int i=0;i<4;i++)</pre>
    {
        printf("Brand:%s Model:%s Color:%s Price:%d \n",car[i].name, car[i].mod
el,car[i].color,car[i].price);
}
```

```
#include <stdio.h>
#include <stdlib.h>
struct Student { //结构体定义
    int id; //学生 ID
    char *name; //学生名字
    char *gender; //学生性别
    double scores[4]; //学生各科分数
   double avgScore; //学生平均分数
};
void main(){
    struct Student stu[6]; //定义学生 stu
    int max=0; //记录最大值
    int maxi=0; //记录最大值的位置
    struct Student *p;
    for(int n=0;n<6;n++){ //循环输入
        double sum=0;
        printf("Please input the %d/6 student's ID : ",n+1);
        scanf("%d",&stu[n].id);
        printf("Please input the %d/6 student's name : ",n+1);
        scanf("%s",&stu[n].name);
        printf("Please input the %d/6 student's gender(boy / girl) : ",n+1);
        scanf("%s",&stu[n].gender);
        for(int i=0;i<4;i++){</pre>
           printf("Please input the %d/6 student's score - %d/4 : ",n+1,i+1);
           scanf("%lf",&stu[n].scores[i]);
           sum+=stu[n].scores[i];
        }
        stu[n].avgScore=sum/4.0;
                                 //计算平均分
        if(stu[n].avgScore>max){
           max=stu[n].avgScore;
           maxi=n;
        }
        printf("\n");
    }
    p = &stu[maxi];
    printf("\n");
    printf("The student's ID is : %d\n",p->id);
    printf("The student's name is : %s\n",&p->name);
    printf("The student's gender is : %s\n",&p->gender);
    for(int i=0;i<4;i++){</pre>
```

```
printf("The student's score - %d/5 is %lf: \n",i+1,p->scores[i]);
}
printf("The student's avgscore is : %lf\n",p->avgScore);
}
```

```
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      问题 终端 ··· 1: Code
C:\Users\cnyvf>cd "c:\Users\cnyvf\Documents\C\" && gcc Ex 3.c -o Ex3 && "c:\Users\cnyvf\Documents\C\"Ex3 Please input the 1/6 student's ID : 1 Please input the 1/6 student's name : a Please input the 1/6 student's gender(boy / girl) : boy Please input the 1/6 student's score - 1/4 : 1 Please input the 1/6 student's score - 2/4 : 1 Please input the 1/6 student's score - 3/4 : 1 Please input the 1/6 student's score - 4/4 : 1
 Please input the 2/6 student's ID : 2
Please input the 2/6 student's name : b
Please input the 2/6 student's gender(boy / girl) : girl
 Please input the 2/6 student's score - 1/4: 2 Please input the 2/6 student's score - 2/4: 2 Please input the 2/6 student's score - 3/4: 2 Please input the 2/6 student's score - 4/4: 2
Please input the 3/6 student's ID : 3
Please input the 3/6 student's name : c
Please input the 3/6 student's gender(boy / girl) : boy
Please input the 3/6 student's score - 1/4 : 3
Please input the 3/6 student's score - 2/4 : 3
Please input the 3/6 student's score - 3/4 : 3
Please input the 3/6 student's score - 4/4 : 3
 Please input the 4/6 student's ID : 4
Please input the 4/6 student's name : d
Please input the 4/6 student's gender(boy / girl) : girl
 Please input the 4/6 student's score - 1/4: 4 Please input the 4/6 student's score - 2/4: 4 Please input the 4/6 student's score - 3/4: 4 Please input the 4/6 student's score - 4/4: 4
Please input the 5/6 student's ID : 5
Please input the 5/6 student's name : e
Please input the 5/6 student's gender(boy / girl) : boy
Please input the 5/6 student's score - 1/4 : 5
Please input the 5/6 student's score - 2/4 : 5
Please input the 5/6 student's score - 3/4 : 5
Please input the 5/6 student's score - 4/4 : 5
 Please input the 6/6 student's ID : 6
Please input the 6/6 student's name : f
Please input the 6/6 student's gender(boy / girl) : girl
 Please input the 6/6 student's score - 1/4: 6 Please input the 6/6 student's score - 2/4: 6 Please input the 6/6 student's score - 3/4: 6 Please input the 6/6 student's score - 4/4: 6
The student's ID is: 6
The student's name is: f
The student's gender is: girl
The student's score - 1/5 is 6.000000:
The student's score - 2/5 is 6.000000:
The student's score - 3/5 is 6.000000:
The student's score - 4/5 is 6.000000:
The student's avgscore is: 6.000000
```

```
#include <stdio.h>
#include <stdlib.h>
                  //结构体定义
struct carSell {
   char *name;
   char *model;
   char *color;
   int price;
};
int cmp(const void *a, const void *b) { //快速排序判断函数
   struct carSell xx=*(struct carSell*)a;
   struct carSell yy=*(struct carSell*)b;
   return xx.price-yy.price;
}
void main() {
   struct carSell car[4]={{"Toyota","alphard","white",870000},{"Honda","crv","
black",188800},{"Tesla","models","red",1270000},{"Benz","G63","black",2459000}}
; //初始化
   struct carSell *p;
   qsort(car, 4, sizeof(car[0]), cmp); //快速排序
   for(int i=0;i<4;i++)</pre>
       *p=car[i];
       printf("Brand:%s Model:%s Color:%s Price:%d \n",p->name, p->model,p->co
lor,p->price);
   }
}
Case1:
                   1: Code
                                              ×
  问题
        终端
 C:\Users\cnyvf>cd "c:\Users\cnyvf\Documents\C\" && gcc Ex
 3.c -o Ex3 && "c:\Users\cnyvf\Documents\C\"Ex3
 Brand:Honda Model:crv Color:black Price:188800
 Brand:Toyota Model:alphard Color:white Price:870000
 Brand:Tesla Model:models Color:red Price:1270000
 Brand:Benz Model:G63 Color:black Price:2459000
 c:\lisers\cn\v/f\Documents\C_
```