







□ 下面我们写程序把10个人的成绩存入score数组中,找出最高分及 所在位置。

输入: 10个人的成绩

输出: 最高分和所在位置

算法思想: 用一个整数存储找到的最高分, 一个整数存储得最高分

的位置,初始是第一个人。然后从第二个人依次判断是

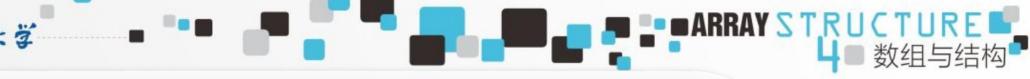
否比已经找到的最高分还高,如果是,则更新;然后继

续对下一个人判断,直到10个人都处理完。





```
#include < stdio.h >
#include < stdlib.h >
int main(){
    int n=10,i,maxStudent=0;
   float scores[n], maxScores = 0;
   for (i = 1; i <= n; ++i)
    scanf("%f", scores[i]);
   for (i = 1; i <= n; ++i)
        if (maxScores < scores[i]){</pre>
            maxScores = scores[i];
            maxStudent=i;
    printf("maxScores=%.2f,maxStudent is %d\n", maxScores,
    maxStudent);
    system("pause");
    return 0;
```



```
#include < stdio.h >
#include < stdlib.h >
int main(){
   int n=10,i,maxStudent=0;
   float scores[n], maxScores = 0;
   for (i = 1; i)
   scanf("%f
             数组大小必须是值为正的常量,
   for (i = 1;i)
      if (ma)不能为变量
          ma
          maxStudent=i;
   printf("maxScores=%.2f,maxStudent is %d\n", maxScores,
   maxStudent);
   system("pause");
   return 0;
```



```
#include < stdio.h >
#include < stdlib.h >
int main(){
   int n=10,i
                 一旦定义,不能改变大小!
   float score
   for (i = 1; i <= n; ++1)
   scanf("%f", scores[i]);
   for (i = 1; i <= n; ++i)
       if (maxScores < scores[i]){</pre>
           maxScores = scores[i];
           maxStudent=i;
   printf("maxScores=%.2f,maxStudent is %d\n", maxScores,
   maxStudent);
   system("pause");
   return 0;
```



```
#include < stdio.h >
#include < stdlib.h >
int main(){
 const int n=10;
   int i,maxStudent=0;
   float scores[n], maxScores = 0;
   for (i = 1; i <= n; ++i)
   scanf("%f", scores[i]);
   for (i = 1; i <= n; ++i)
       if (maxScores < scores[i]){</pre>
            maxScores = scores[i];
            maxStudent=i;
   printf("maxScores=%.2f,maxStudent is
   %d\n", maxScores, maxStudent);
   system("pause");
   return 0;
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#include < stdio.h >
#include < stdlib.h >
int main(){
 const int n=10;
   int i,maxStudent=0;
   float scores[n], maxScores:
   for (i = 1; i <= n; ++i)
   scanf("%f", scores[i]);
   for (i = 1; i <= n; ++i)
       if (maxScores < scores[i]){</pre>
            maxScores = scores[i];
            maxStudent=i;
   printf("maxScores=%.2f,maxStudent is
   %d\n", maxScores, maxStudent);
   system("pause");
   return 0;
```



```
#include < stdio.h >
#include < stdlib.h >
int main(){
 const int n=10;
   int i,maxStudent=0;
   float scores[n], maxScores = 0;
   for (i = 0; i < n; ++i)
   scanf("%f", scores[i]);
   for (i = 0; i < n; ++i)
        if (maxScores < scores[i]){</pre>
           maxScores = scores[i];
            maxStudent=i;
    printf("maxScores=%.2f,maxStudent is
    %d\n", maxScores, maxStudent);
    system("pause");
    return 0;
```

```
ARRAY S T R U C T U R E 数组与结构
```

```
#include < stdio.h >
#include < stdlib.h >
int main(){
  const int n=10;
    int i,maxStudent=0;
    float scores[n], maxScores
    for (i = 0; i < n; ++i)
    scanf("%f", scores[i]);
    for (i = 0; i < n; ++i)
        if (maxScores < scores[i]){</pre>
            maxScores = scores[i];
            maxStudent=i;
    printf("maxScores=%.2f,maxStudent is
    %d\n", maxScores, maxStudent);
    system("pause");
    return 0;
```

scores[i]为数组元素; scores+i或者&scores[i]为元素地址





## 使用前必须初始化

```
#include < stdio.h >
#include < stdlib.h >
int main(){
 const int n=10;
    int i,maxStudent=0;
    float scores[n], maxScores = 0;
   for (i = 0; i < n; ++i)
    scanf("%f", &scores[i]);
   for (i = 0; i < n; ++i)
       if (maxScores < scores[i]){</pre>
            maxScores = scores[i];
           maxStudent=i;
    printf("maxScores=%.2f,maxStudent is
    %d\n", maxScores, maxStudent);
    system("pause");
    return 0;
```