

投票系统：给定候选人名单，从键盘输入候选人的名字，统计票数，并输出最终获胜者。若投票人输入的名字不在其候选名单上，则该票数无效。

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```
1 #include<stdio.h>
2 #include<string.h>
3 #define NUM 10 //投票的人数
4 #define K 4 //候选人数
5 struct vote{
6     char name[10];
7     int num;
8 }candidate[K]={ "Mark", 0, "wrr", 0, "Mary", 0, "Kay", 0};
9
10 void main() {
11     char input[10];
12     int i, j, m=0, n=0, max=0;
13
14     printf("\t\tWelcome to the voting system!\n");
15     printf("\t\tcandidate:");
16     for(j=0;j<K;j++){
17         printf("%s ", candidate[j].name);
18     }
19     printf("\n");
20
21     for(i=0;i<NUM;i++){
22         printf("No. %d is voting ,name is :", i+1);
23         scanf("%s", input);
24         for(j=0;j<K;j++){
25             if(strcmp(candidate[j].name, input)==0){
26                 n=candidate[j].num++;
27             }
28             if(max<n) {
29                 max=n;
30                 m=j;
31             }
32         }
33     }
34     printf("\n\n");
35 //int strcmp(char *a, char *b) 比较字符串a, b
36 //a<b, 返回负数; a=b, 返回 0 ; a>b, 返回正数
37     for(j=0;j<K;j++){
38         printf("%s's number of votes is %d\n", candidate[j].name, candidate[j].num);
39     }
40
41     printf("\nThe victor is %s !!! \nThe number of votes is %d\n\n", candidate[m].name, max+1);
42 }
```

结果为:

```
C:\ "C:\DOCUMENTS AND SETTINGS\ADMINISTRATOR\桌面\WRR\4\Debug\4.exe"
Welcome to the voting system!
candidate:Mark wrr Mary Kay
No.1 is voting ,name is :Kay
No.2 is voting ,name is :Mark
No.3 is voting ,name is :wrr
No.4 is voting ,name is :Mary
No.5 is voting ,name is :wrr
No.6 is voting ,name is :Kailu
No.7 is voting ,name is :wrr
No.8 is voting ,name is :wrr
No.9 is voting ,name is :Mark
No.10 is voting ,name is :wrr

Mark's number of votes is 2
wrr's number of votes is 5
Mary's number of votes is 1
Kay's number of votes is 1

The victor is wrr !!!
The number of votes is 5

Press any key to continue
```