指针

指针与字符串



字符串

字符串是由一对双引号" "引起来的多个字符构成字符串存储时在最后要加上字符串的结束符 '\0'字符串是借助数组实现的一种构造数据类型,是字符型数据和数组结合的一种特殊形式

指向字符串的指针

```
#include "stdio.h"
int main()
{ char *ps="hello";
 printf("%d %s\n",ps,ps);
 ps="book";
 printf("%d %s\n",ps,ps);
return 0;
```

运行结果:

4210688 hello 4210701 book



字符串指针和字符数组的区别

```
#include"stdio.h"
int main()
{ char *nt="desk";
 printf("\n pt 指向内容%s 地址%d\n", pt, pt);
 pt=pt+2;
 printf("\n pt 指向内容%s 地址%d\n", pt, pt);
 pt="book";
 printf("\n pt 指向内容%s 地址%d\n", pt, pt);
 return 0;
```

```
pt 指向内容desk 地址4210688
pt 指向内容sk 地址4210690
pt 指向内容book 地址4210717
```



```
#include "stdio.h"
#include "string.h"
int main()
{ char_st[20]="hello";
 printf("\n st 内容%s 地址%d\n", st, st);
// st=st+2; //错误
// st="book"; //错误
strcpy(st, "apple");
printf("\n st 内容%s 地址%d\n", st, st);
 return 0;
```

- st 内容hello 地址6487600
- st 内容apple 地址6487600



二维数组存储字符串

```
#include "stdio.h"
int main()
{ char week[8][10]={"","Monday","Tuesday","Wednesday",
"Thursday", "Friday", "Saturday", "Sunday"};
 int i;
 printf("input 1--7 :");
 scanf("%d",&i);
 printf("%s\n",week[i] );
return 0;
```

运行结果:

input 1--7 :2 Tuesday



指向字符串数组的指针

```
#include "stdio.h"
int main()
{ char week[8][10]={"","Monday", "Tuesday", "Wednesday", "Thursday",
"Friday", "Saturday", "Sunday"};
 int i;
 char (*pw)[10];
 pw=&week[0];
 printf("input 1--7 :");
 scanf("%d",&i);
 printf("%s\n", pw±i);
return 0;
```

运行结果:

input 1--7:2Tuesday



THANKYOU

