

分支和循环语句

if嵌套语句：

```
//if 判断语句
#include <stdio.h>
int main()
{
    int n;
    scanf("%d",&n);
    if (n == 0) {
        printf("this number is zero");
    }
    else {
        if (n > 0) {
            printf("this number is Higher than zero");
        }
        else {
            printf("this number is Lower than zero");
        }
    }
    return 0;
}
```

输入输出：

0

this number is zero

-1

this number is Lower than zero

2

this number is Higher than zero

如果是单语句 不需要加花括号，如果是语句块，就要加上花括号，否则无法执行

```
#include <stdio.h>
int main() {
    int n;
    scanf("%d",&n);
    if (n < 18)
        printf("未成年");
    else if (n < 40)
        printf("青壮年");
    else if (n < 89)
        printf("老年");
    else
        printf("老寿星");
    return 0;
}
```

输入输出：

89

老年

19

青壮年

13

未成年

悬空else问题

```
#include <stdio.h>
```

```
int main() {
```

```
    int a = 0;
```

```
    int b = 2;
```

```
    if (a == 1) {
```

```
        if (b == 2)
```

```
            printf("hehe\n");
```

```
    else
```

```
        printf("haha\n");
```

```
    }
```

```
    return 0;
```

```
}
```

```
#include <stdio.h>
```

```
int main() {
```

```
    int a = 0;
```

```
    int b = 2;
```

```
    if (a == 1) {
```

```
        if (b == 2)
```

```
            printf("hehe\n");
```

```
        else
```

```
            printf("haha\n");
```

```
    }
```

```
    return 0;
```

```
}
```

else跟他离的最近的if语句匹配，合理使用大括号来匹配if语句，代码的书写风格很重要！