

# 习题

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## 1.16 比较两个整数a和b的大小

```
char Compare(int a, int b)
{
    if (a > b) return '>';
    else if (a == b) return '=';
    else return '<';
}
```

关键操作：不含循环，程序步数为常数

时间复杂度： $T(n)=O(1)$

## 1.17 统计各区间元素个数

```
void Count(int a[],int size)    //传入数组以及数组大小
{
    int c1, c2, c3, c4, c5;    //记录各区间元素个数
    c1 = c2 = c3 = c4 = c5 = 0;
    for (int i = 0; i < size; i++)
    {
        if (a[i] >= 0 && a[i] <= 20) c1++;
        else if (a[i] <= 50) c2++;
        else if (a[i] <= 80) c3++;
        else if (a[i] <= 130) c4++;
        else c5++;
    }
    cout << "[0,20]:" << c1 << endl;    //输出
    cout << "[21,50]:" << c2 << endl;
    cout << "[51,80]:" << c3 << endl;
    cout << "[81,130]:" << c4 << endl;
    cout << "[131,200]:" << c5 << endl;
}
```