

1.三指针算法

Hint: 以一个循环O(n) 解决sort colors 问题

```
public void sortColors(int[] a) {
    if (a == null || a.length <= 1) {
        return;
    }

    int pl = 0;
    int pr = a.length - 1;
    int i = 0;
    while (i <= pr) {
        if (a[i] == 0) {
            swap(a, pl, i);
            pl++;
            i++;
        } else if (a[i] == 1) {
            i++;
        } else {
            swap(a, pr, i);
            pr--;
        }
    }
}
```

Two Pointers Practice:

- **608. Two Sum II - Input array is sorted**

Hint: Two Pointers

- **148. Sort Colors**

Hint: Three Pointers

- **143. Sort Colors II**

Hint: Quick Sort

- **57. 3Sum**

Hint: Three Pointers, 需要判断指针移动后元素与原来一样的情况

- **31. Partition Array**
- **604. Window Sum**
- **609. Two Sum - Less than or equal to target**
- **587. Two Sum - Unique pairs**