

知识总览

『泡排序

交换排序

快速排序

基于"交换"的排序:根据序列中两个元素关键字的比较结果来对换这两个记录在序列中的位置





从后往前(或从前往后)两两比较相邻元素的值,若为逆序(即A[i-1]>A[i]),则交换它们,直到序列比较完。称这样过程为"一趟"冒泡排序。





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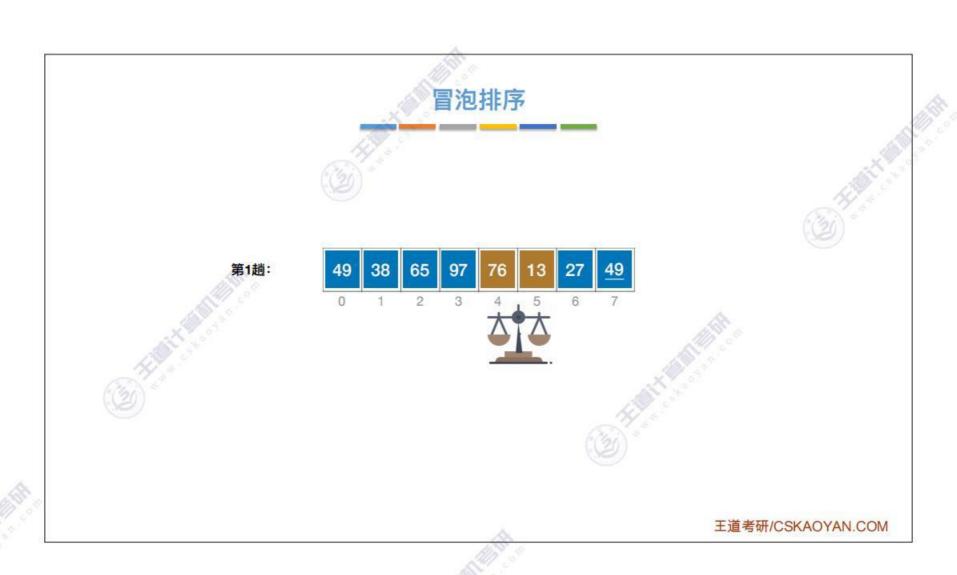
第1趟:

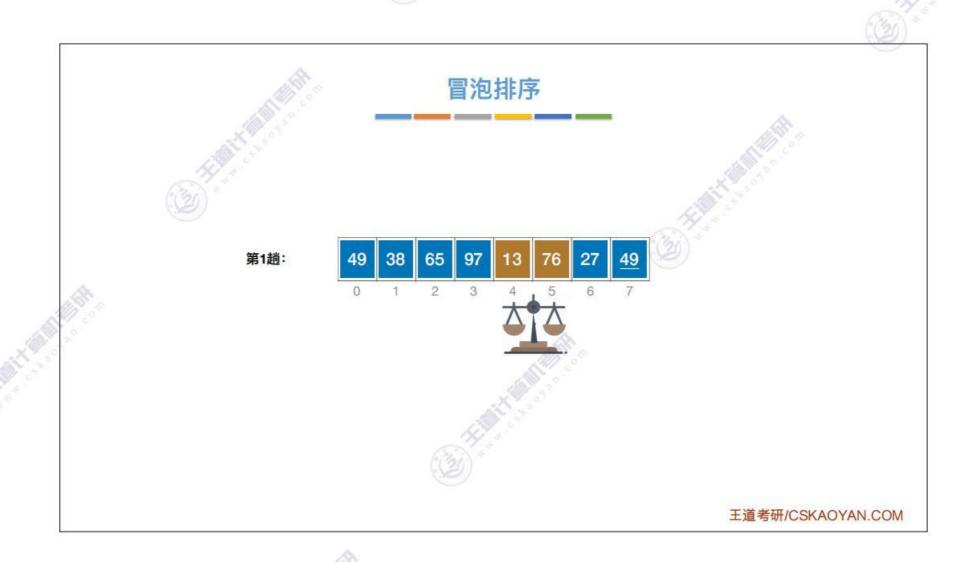


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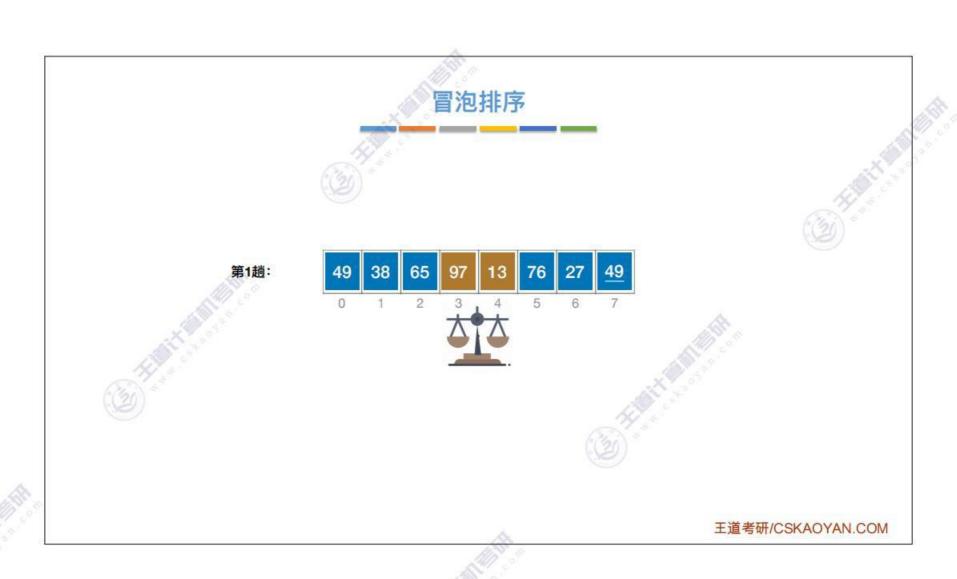
第1趙: 49 38 65 97 76 13 27 49 0 1 2 3 4 5 6 7

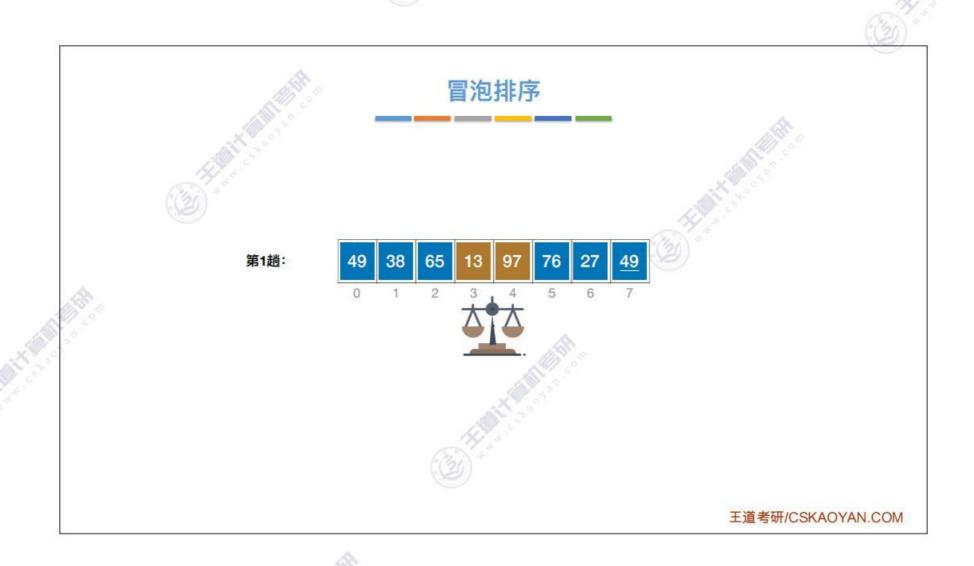










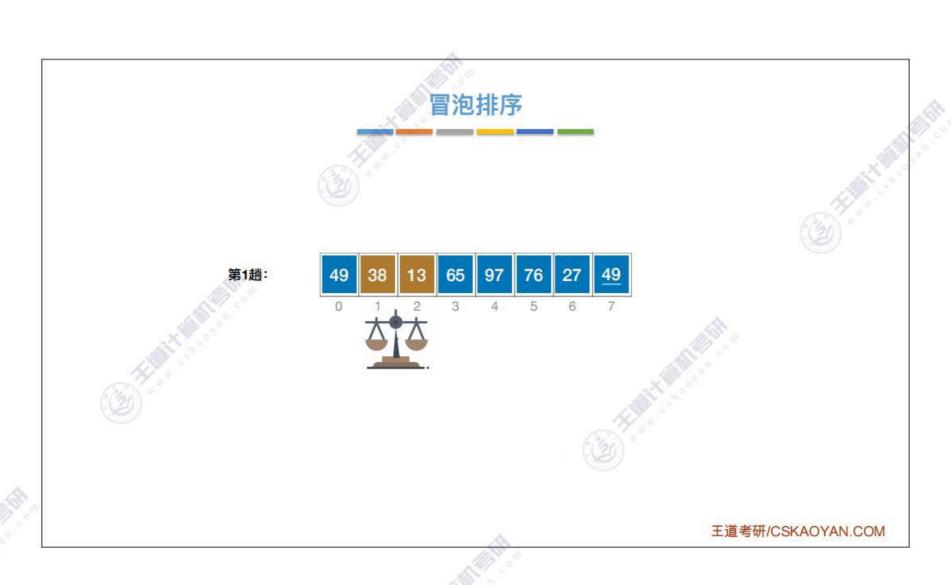


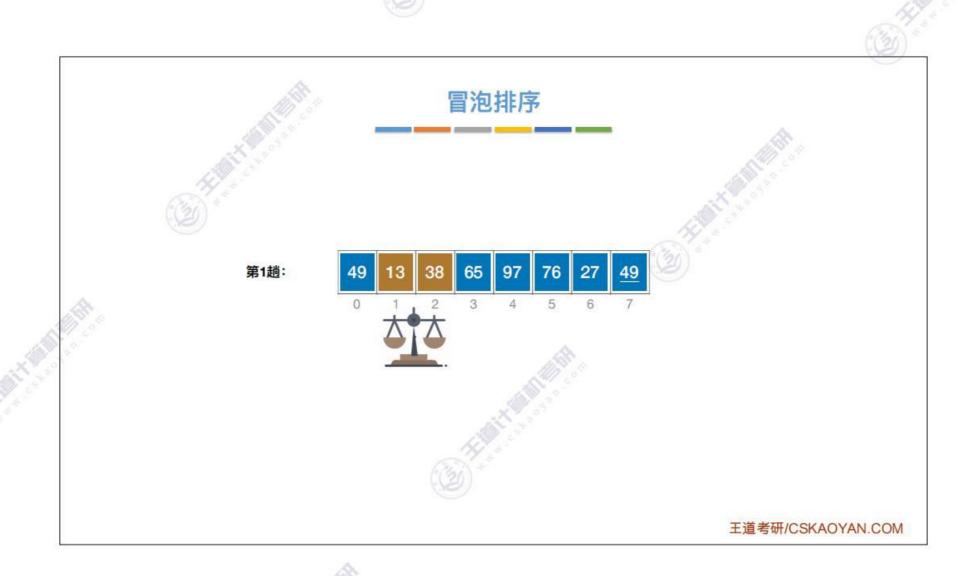




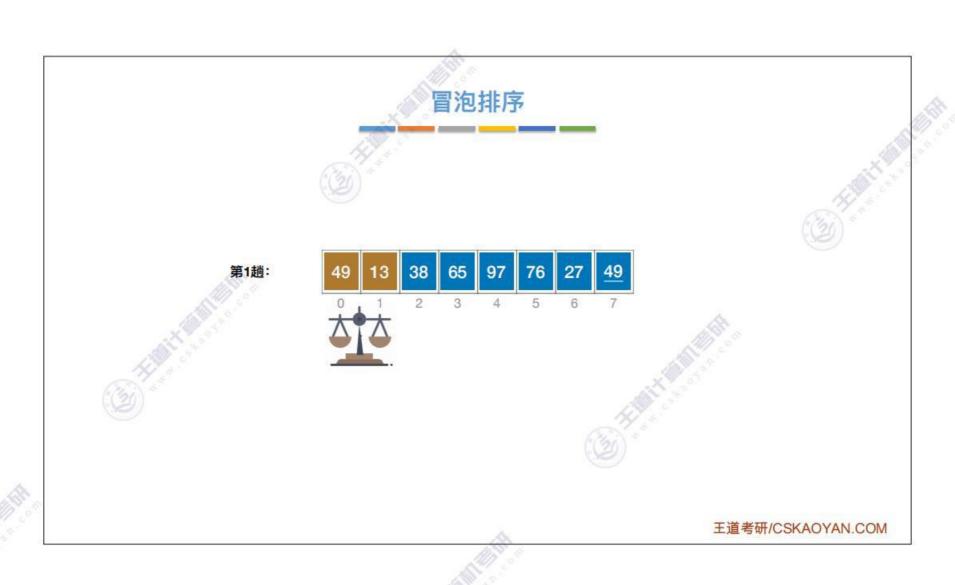


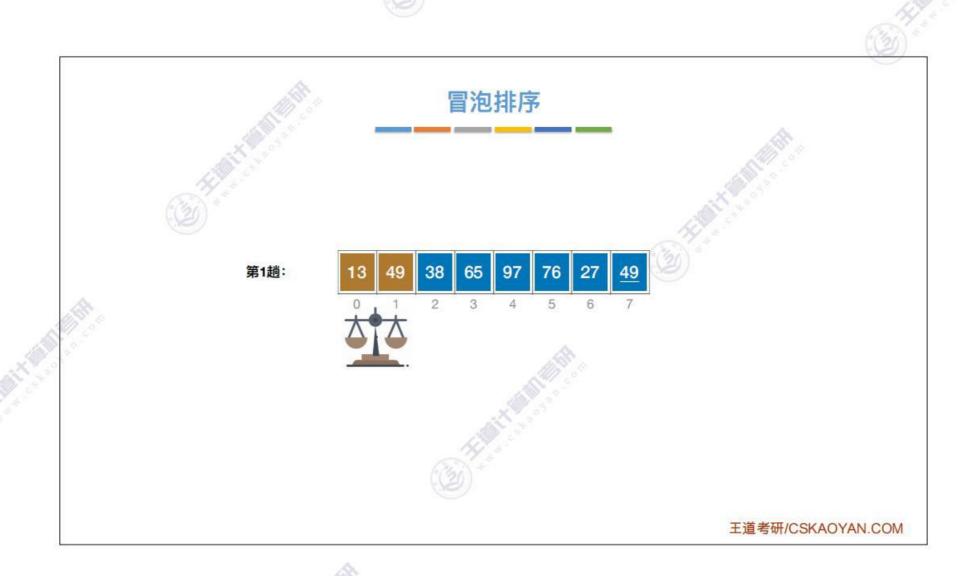














第1趟结束:

 13
 49
 38
 65
 97
 76
 27
 49

 0
 1
 2
 3
 4
 5
 6
 7

第一趟排序使关键字值最小的 一个元素"冒"到最前面

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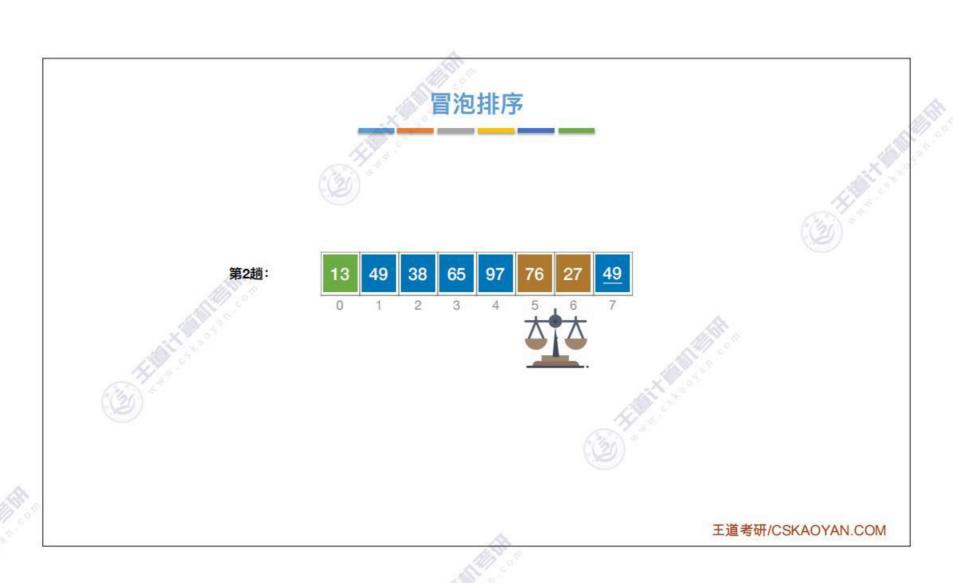
## 冒海排序

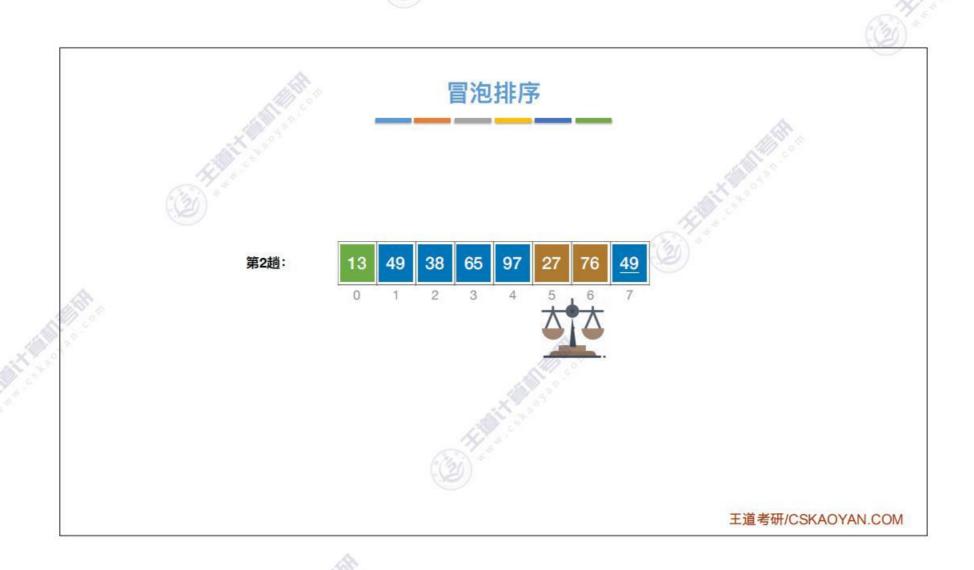
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第2趟

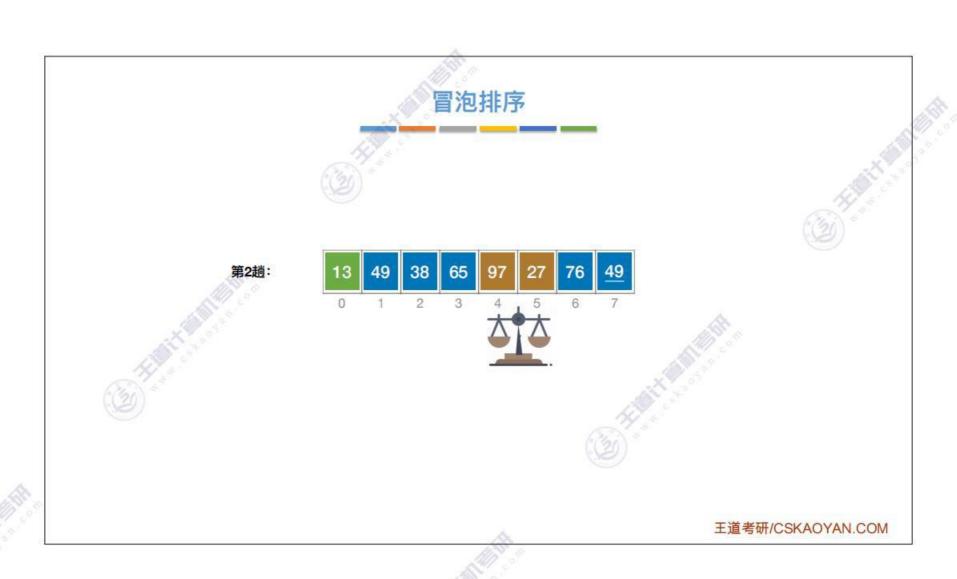








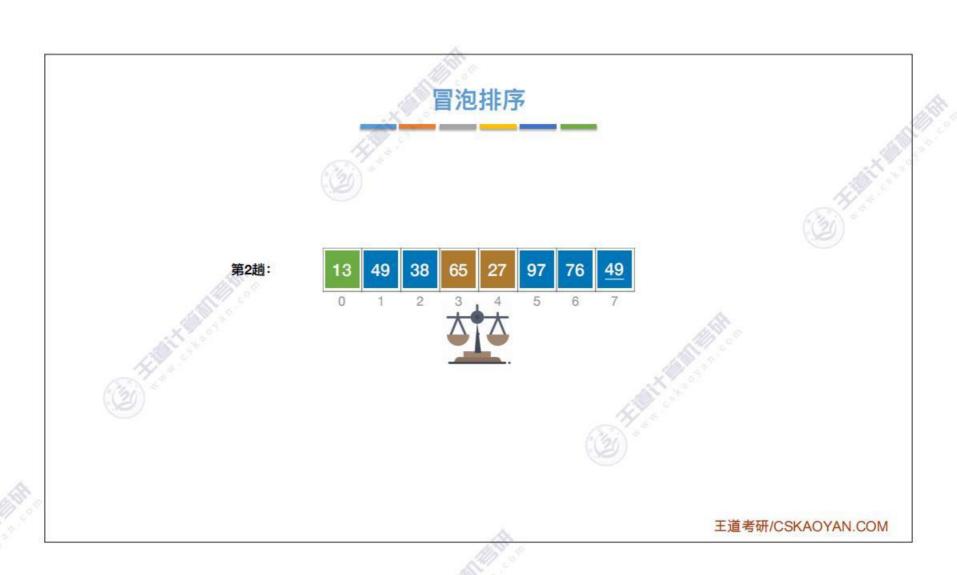


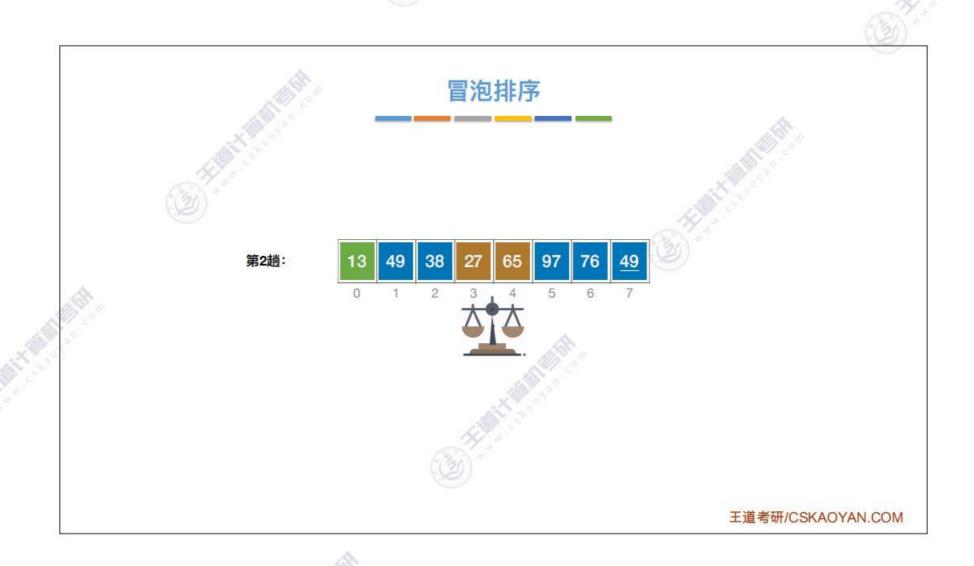




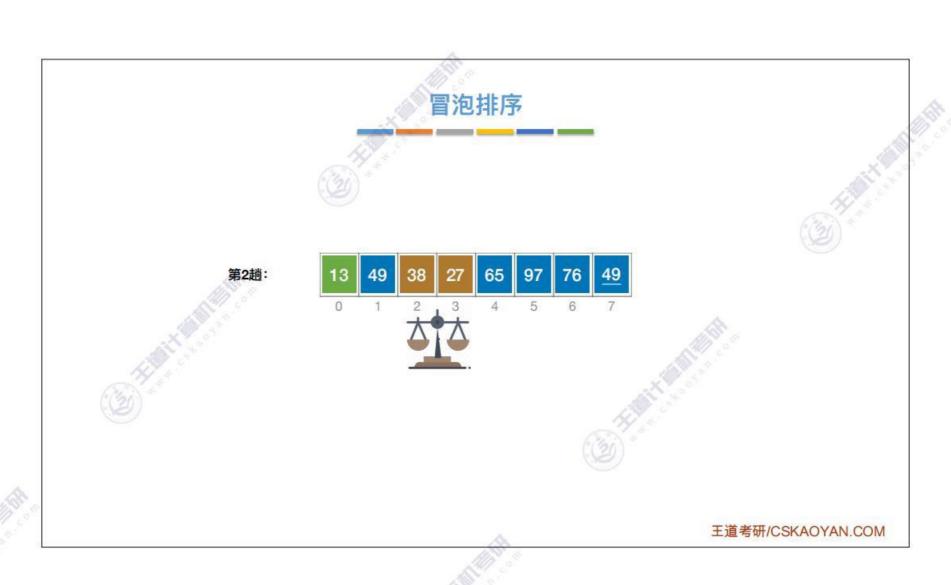
(2) Frank







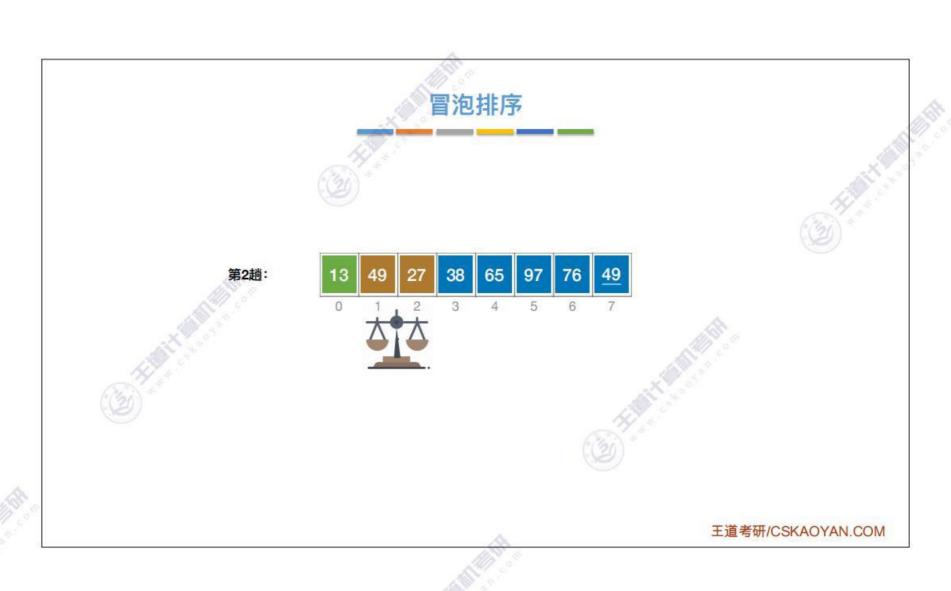


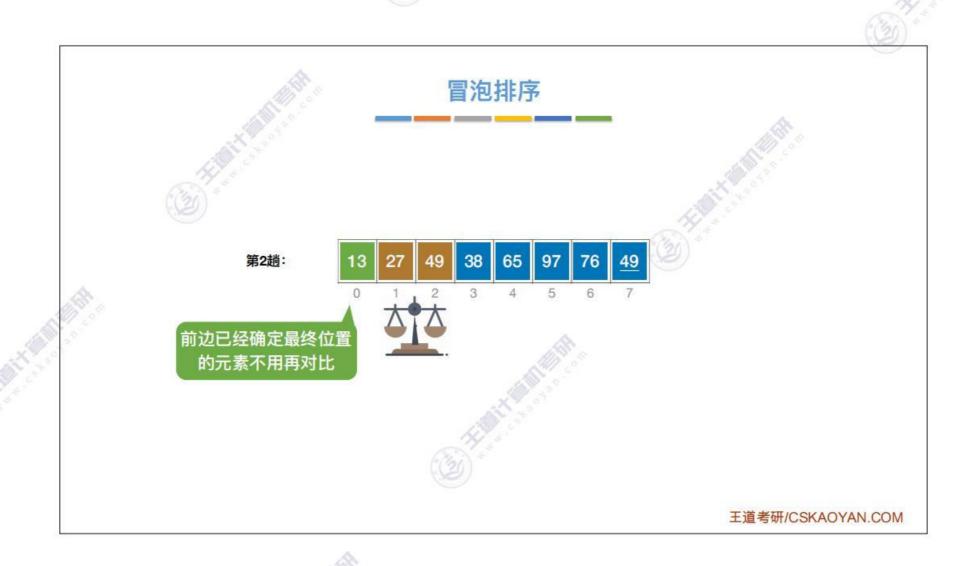


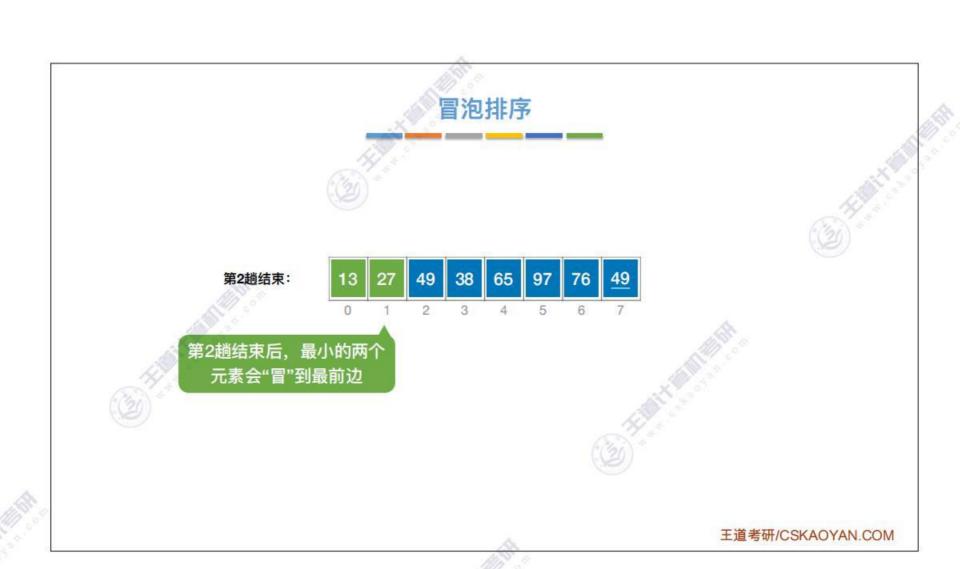


E Fill Harris







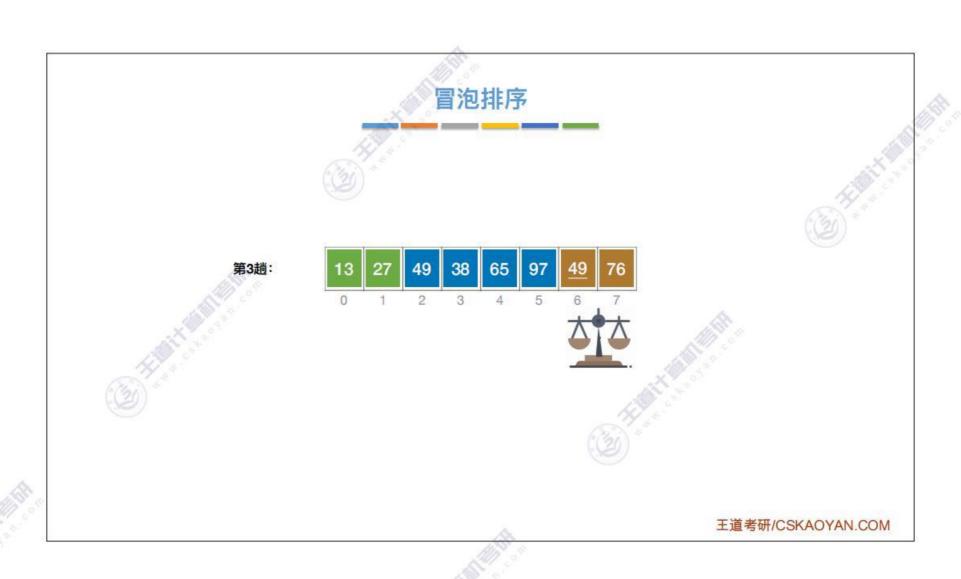


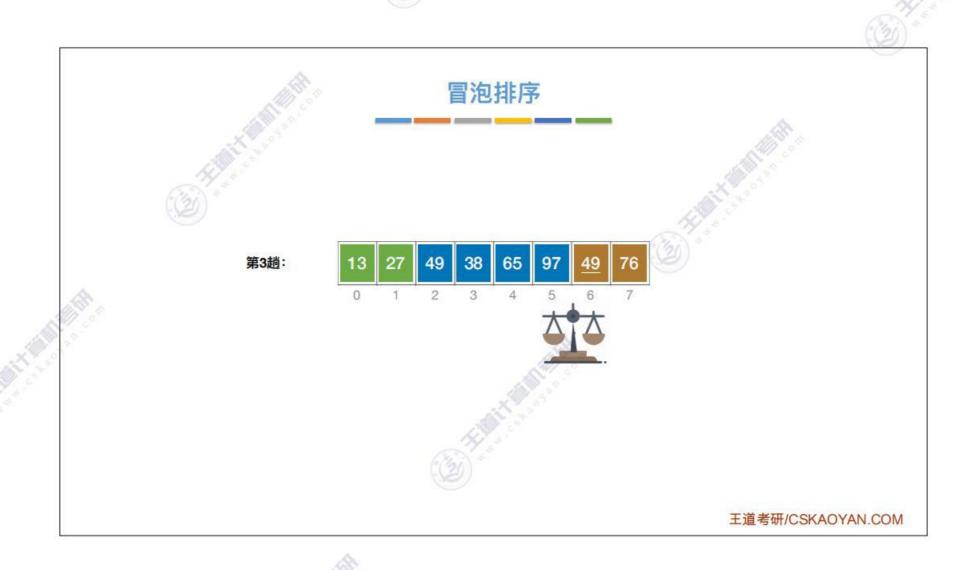
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第3趟

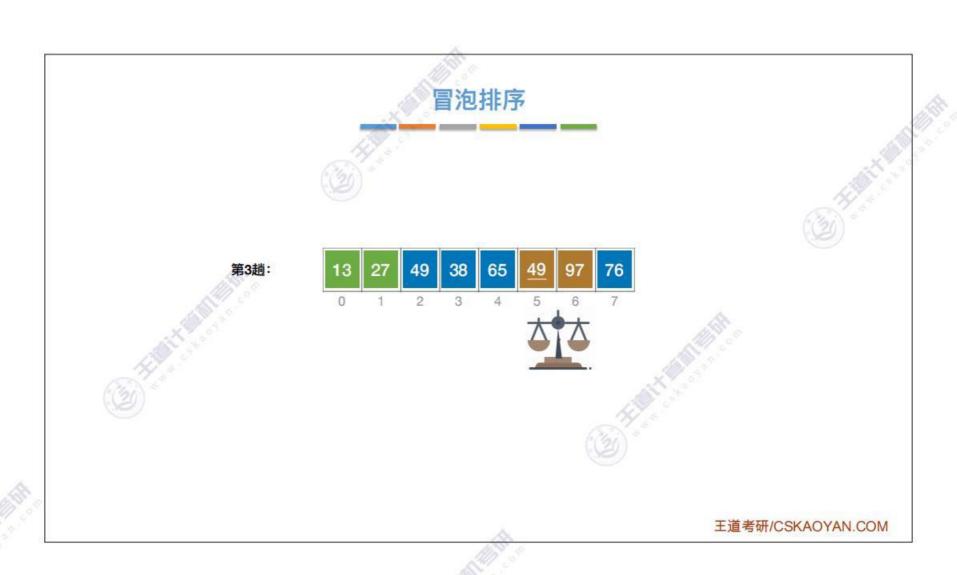


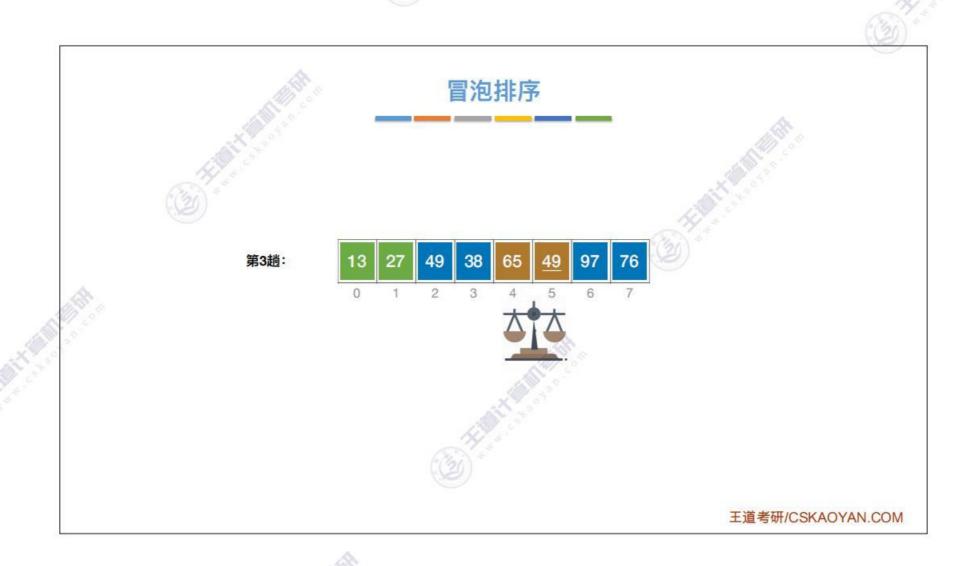






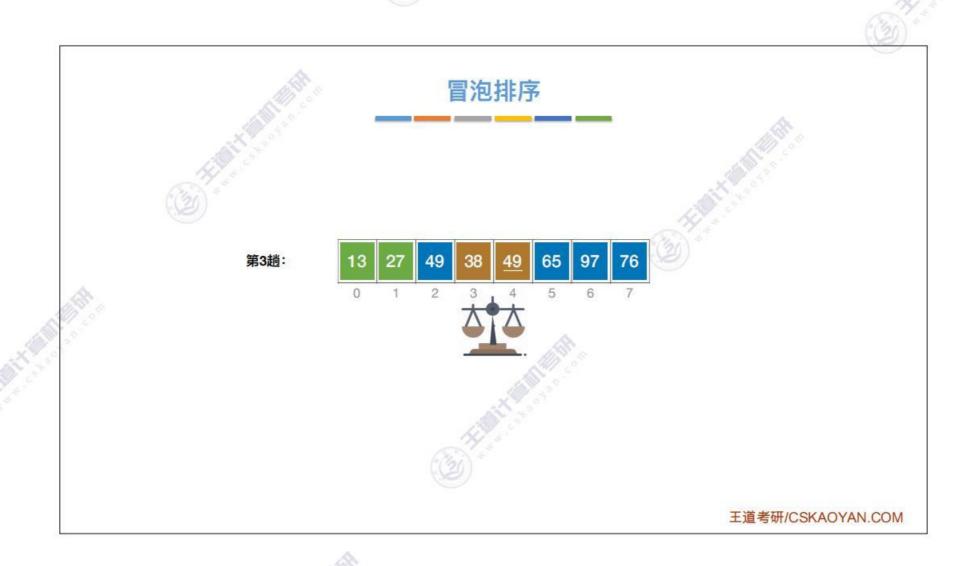




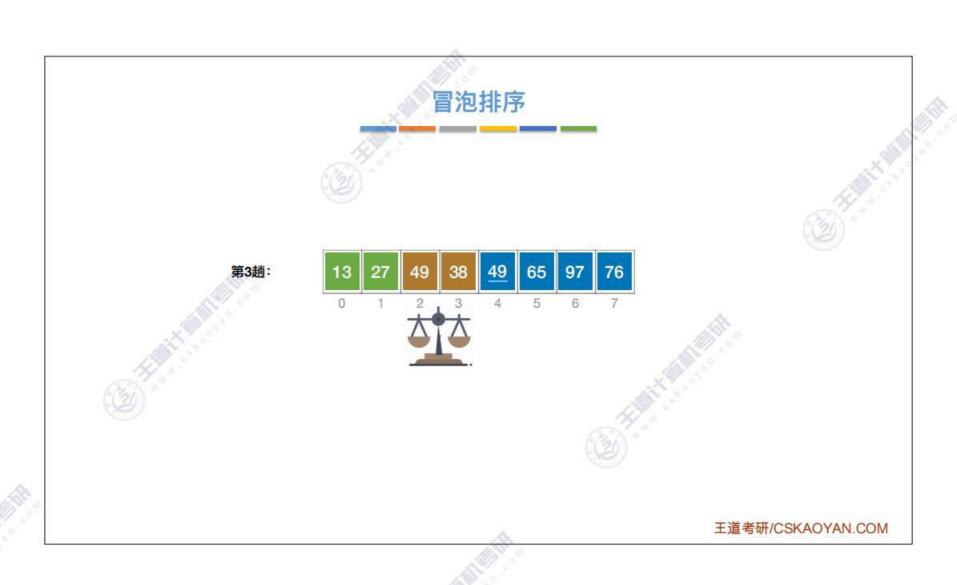


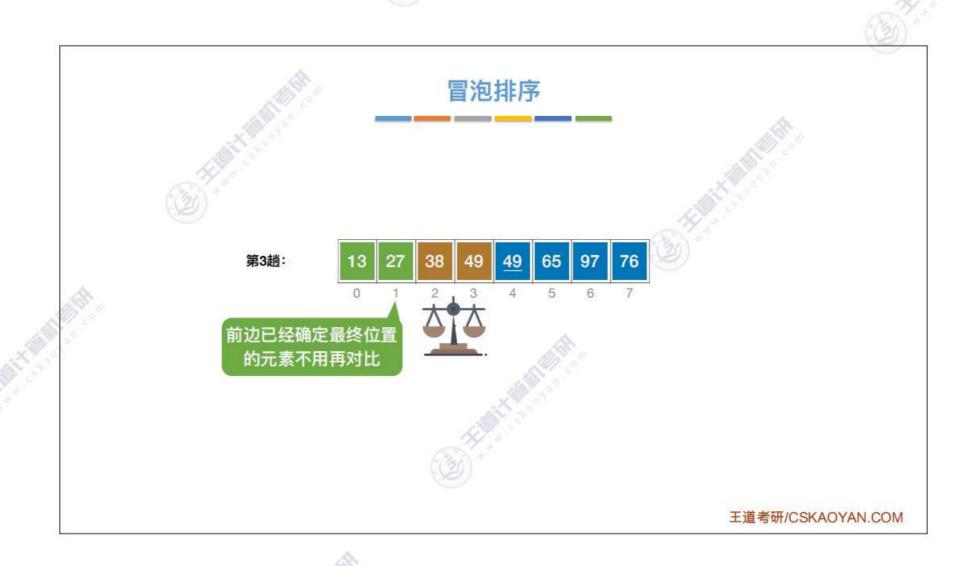


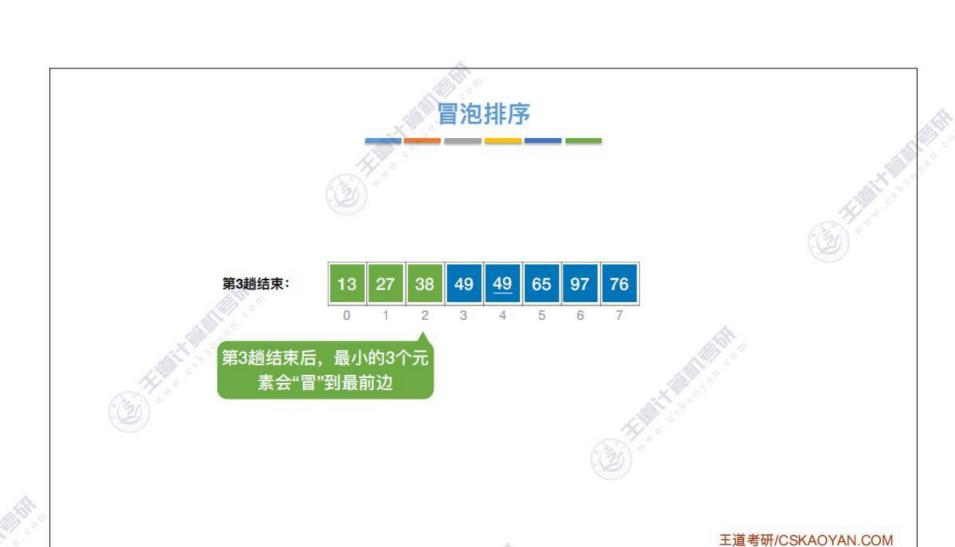










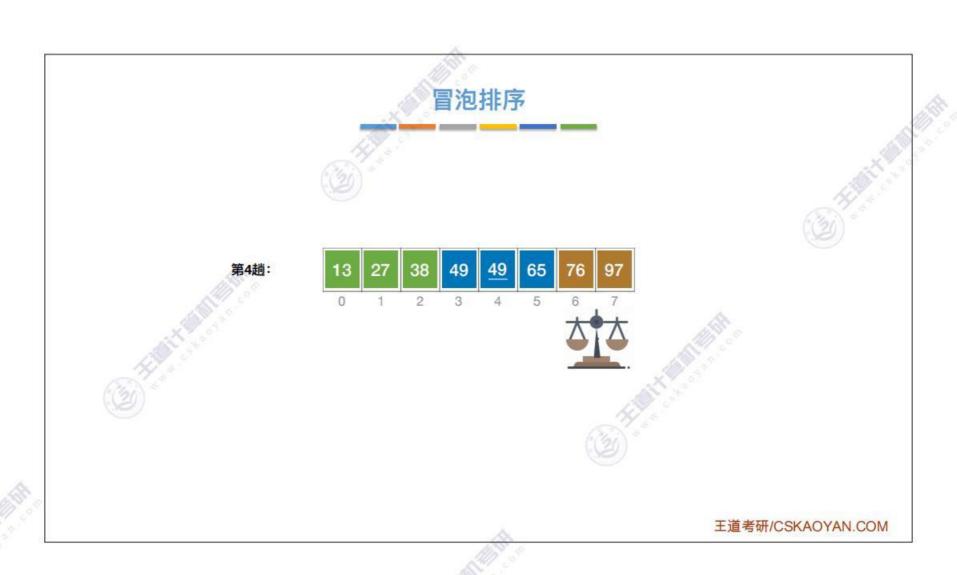


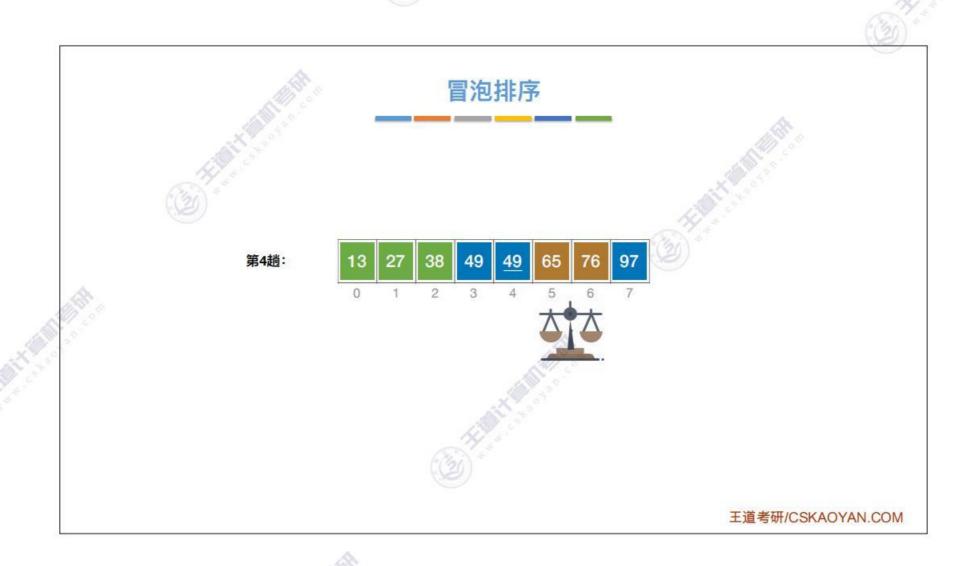
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第4趟:



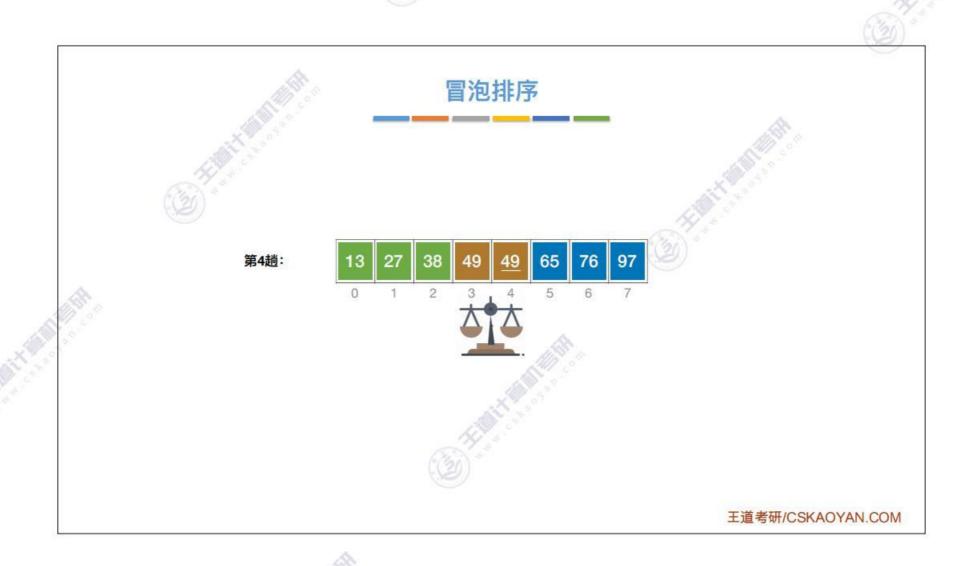














第4趟结束:

 13
 27
 38
 49
 49
 65
 76
 97

 0
 1
 2
 3
 4
 5
 6
 7

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#### 冒泡排序

从后往前(或从前往后)两两比较相邻元素的值,若为逆序(即A[i-1]>A[i]),则交换它们,直到序列比较完。称这样过程为"一趟"冒泡排序。

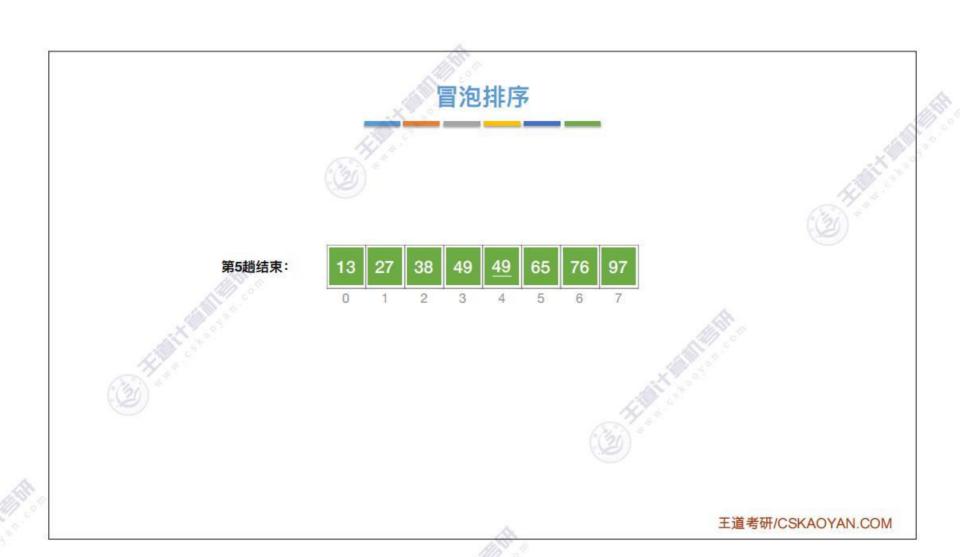
第5趟

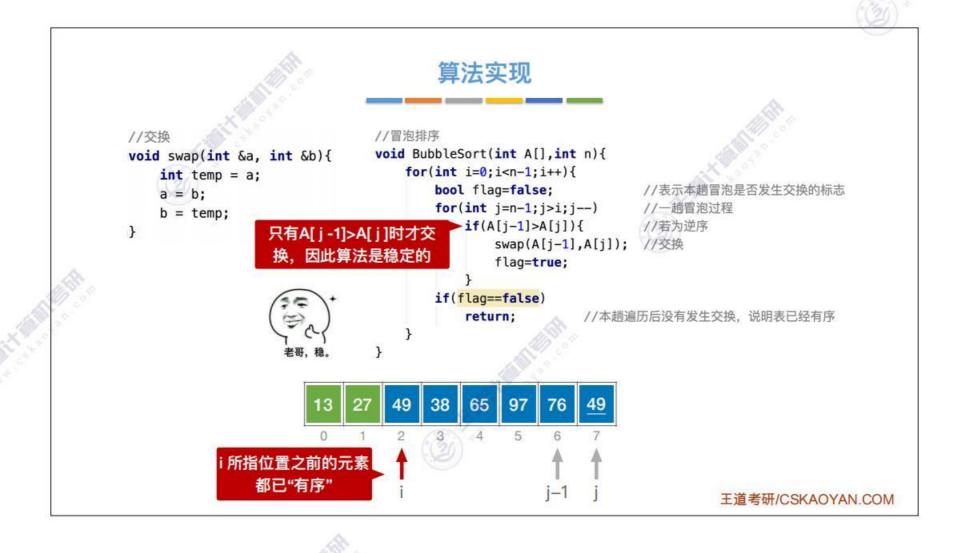


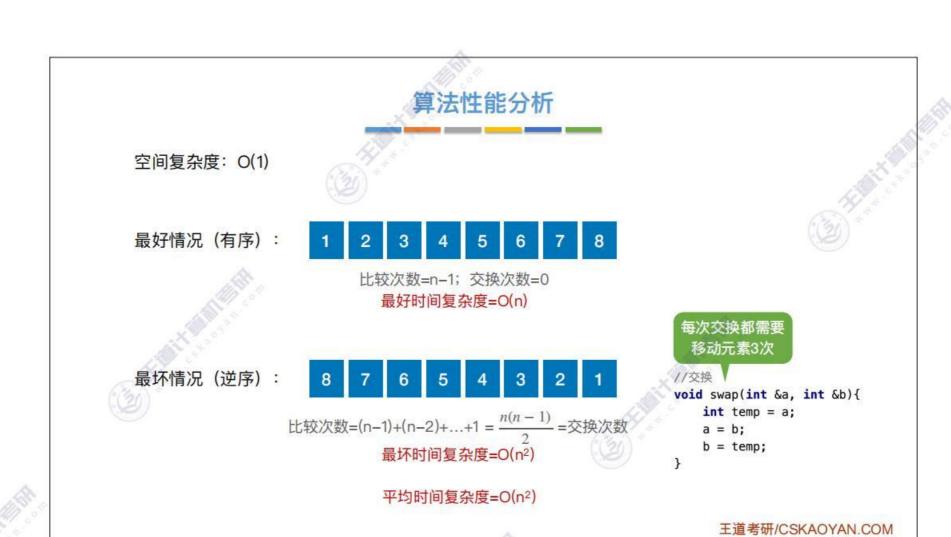


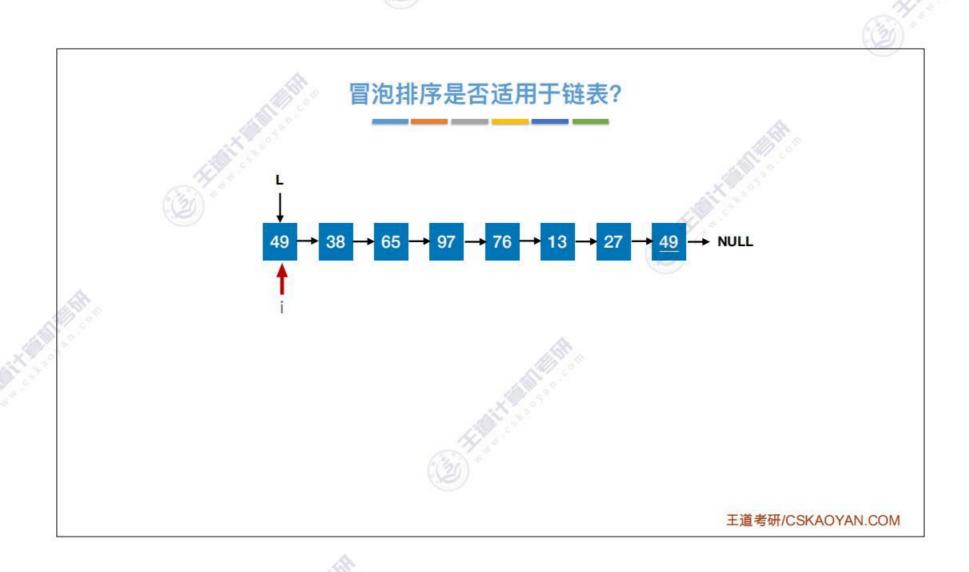
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第5趟: 13 27 38 49 49 65 76 97 0 1 2 3 4 5 6 7 若某一趟排序没有发生"交换", 说明此时已经整体有序。

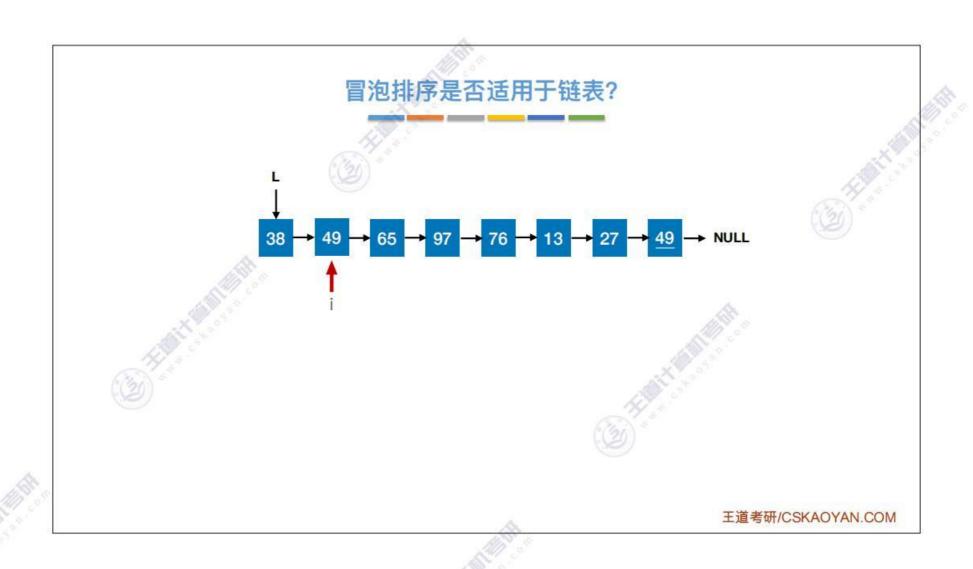


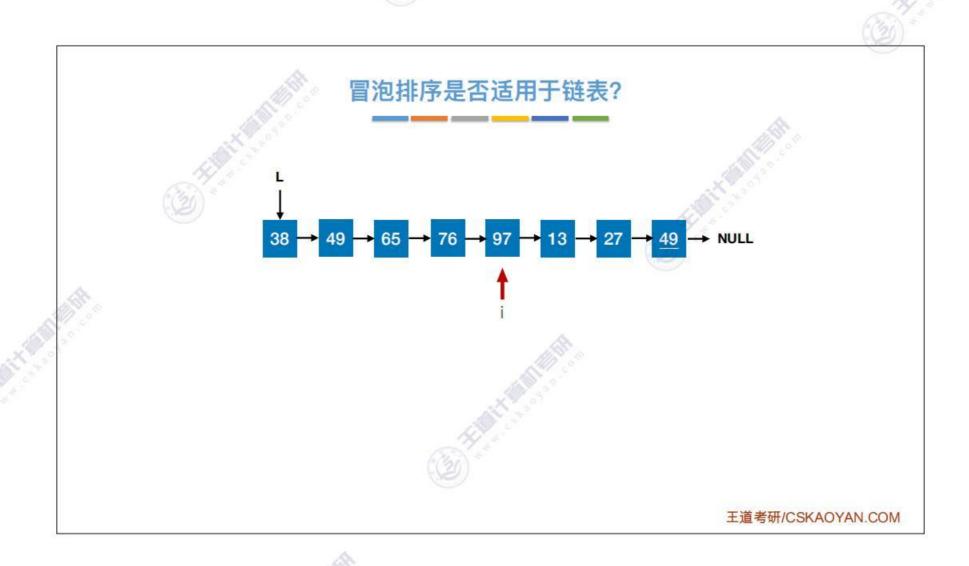




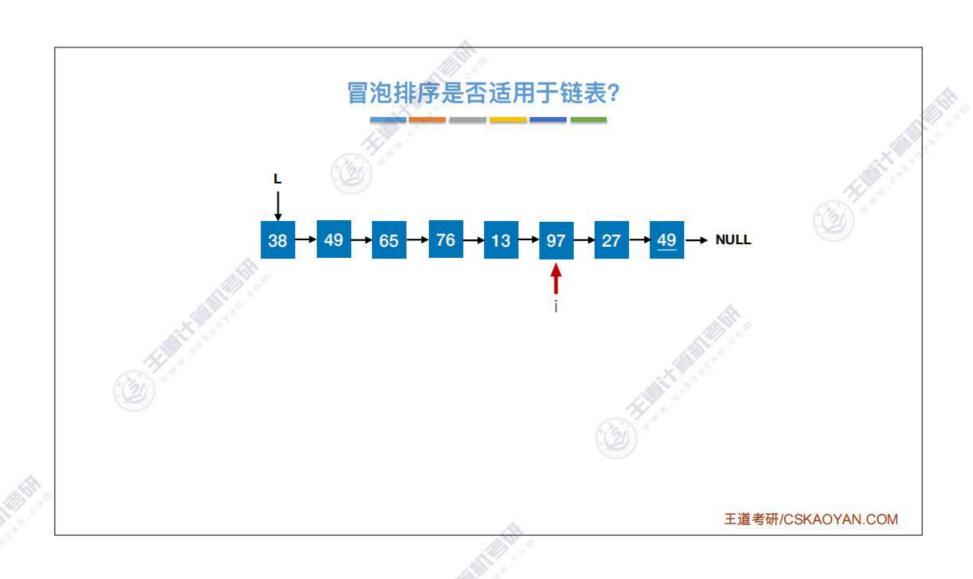


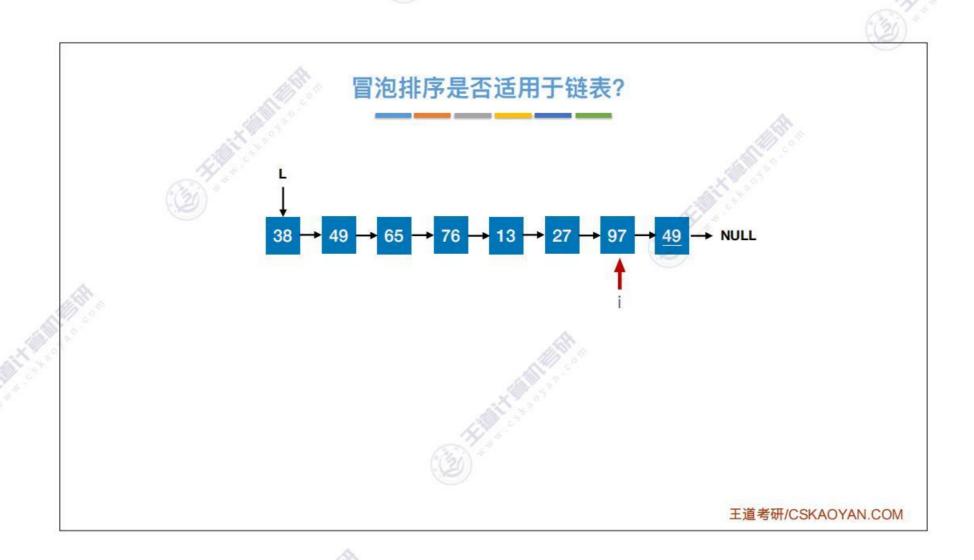


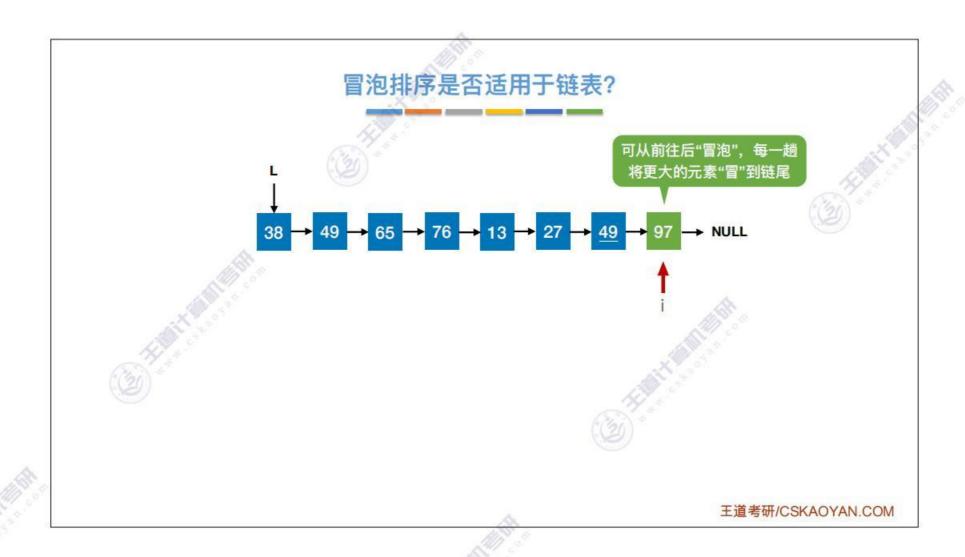


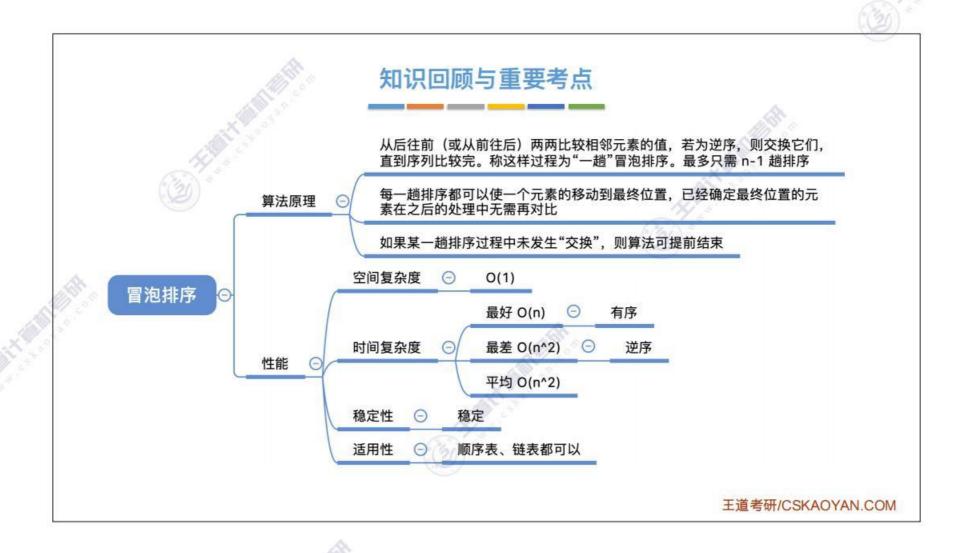












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