347. Top K Frequent Elements

if(bucket[count] == null)

List<Integer> result = new ArrayList<>();

result.addAll(bucket[i]);

if(bucket[i] != null && result.size() < k)</pre>

bucket[count].add(key);

//第三步: 逆序取数据

return result;

}

}

bucket[count] = new ArrayList<Integer>();

for(int i = nums.length; i > 0; i--) {//注意i的起始值,当数组只有一个数据时

Description Discuss Solution **⊅** Pick One Given a non-empty array of integers, return the k most frequent elements. Example 1: Input: nums = [1,1,1,2,2,3], k = 2 Output: [1,2] Example 2: Input: nums = [1], k = 1 Output: [1] Note: You may assume k is always valid, 1 ≤ k ≤ number of unique elements. Your algorithm's time complexity must be better than O(n log n), where n is the array's size. public class L347 { public List<Integer> topKFrequent(int[] nums, int k) { //第一步: 用hash表统计数组中各元素出现的频次,表中"键"为元素数组,"值"为对应元素出现的频次 HashMap<Integer, Integer> map = new HashMap<>(); for (int i : nums) { if(!map.containsKey(i)) { map.put(i, 1); }else { map.put(i, map.get(i) + 1); //学会这个表达式,数组链表 //第二步: 桶排序 List<Integer> [] bucket = new List[nums.length + 1]; //定义足够多的桶 for(int key : map.keySet()) { int count = map.get(key);//获取数值为key的元素出现的频次 //把出现频次相同的元素"扔"到序号等于频次的桶中