1. Find Minimum in Rotated Sorted Array II

Suppose an array sorted in ascending order is rotated at some pivot unknown to you beforehand.

(i.e., [0,1,2,4,5,6,7] might become [4,5,6,7,0,1,2]).

Find the minimum element.

The array may contain duplicates.

**Example 1:**

Input: [1,3,5]  
Output: 1

**Example 2:**

Input: [2,2,2,0,1]  
Output: 0

**Note:**

* This is a follow up problem to [Find Minimum in Rotated Sorted Array](https://leetcode.com/problems/find-minimum-in-rotated-sorted-array/description/).
* Would allow duplicates affect the run-time complexity? How and why?

**解** 三种情况

class Solution {  
public:  
 int findMin(vector<int>& nums) {  
 if(nums.size() == 1)return nums[0];  
 int l = 0, r = nums.size()-1, mid;  
 if(nums[r] > nums[l])return nums[l];  
 while(l < r){  
 mid = (l+r)/2;  
 if(nums[mid] > nums[r])l = mid+1;  
 else if(nums[mid] < nums[r])r = mid;  
 else r = r - 1;  
 }  
 return nums[l];  
 }  
};