1. Find Minimum in Rotated Sorted Array

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.

You may assume no duplicate exists in the array.

**Example 1:**

Input: [3,4,5,1,2]   
Output: 1

**Example 2:**

Input: [4,5,6,7,0,1,2]  
Output: 0

**解** 二分查找

class Solution {  
public:  
 int findMin(vector<int>& nums) {  
 // 特殊情况  
 if(nums.size() == 1)return nums[0];  
 int l = 0, r = nums.size()-1, mid;  
 if(nums[r] > nums[l])return nums[l];  
 //查找  
 while(l <= r){  
 mid = (l+r)/2;  
 //两种情况对应着断点  
 if(nums[mid] > nums[mid+1])return nums[mid+1];  
 if(nums[mid-1] > nums[mid])return nums[mid];  
 //调整两侧的范围  
 if(nums[mid] > nums[0]){  
 l = mid + 1;  
 }else{  
 r = mid - 1;  
 }  
 }  
 return -1;  
 }  
};