

153. Find Minimum in Rotated Sorted Array

Description

Hints

Submissions

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Solution

Pick One

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`

```
public class L153 {  
  
    /*  
    * 因为数组是按照递增序列后旋转得到的，所以当nums[mid] < nums[right] 时，那么要找的最小值在左半部分，反而在右半部分  
    * 本题考查的是二分法  
    */  
    public int findMin(int [] nums) {  
        int left = 0;  
        int right = nums.length - 1;  
        while (left < right) {  
            int mid = left + (right-left) / 2;  
            if(nums[mid] < nums[right]) {  
                right = mid;  
            }else {  
                left = mid + 1;  
            }  
        }  
        return nums[left];  
    }  
}
```