题目： LCR 069. 山脉数组的峰顶索引

对于全部数据不是按照有序排序的数组来说，二分查找依然适用于局部数据有序，对于局部数据使用二分查找算法完成任务

```cpp
class Solution {
public:
    int peakIndexInMountainArray(vector<int>& arr) {
        int n = arr.size();
        int left = 0;
        int right = n-1;
        while(left < right)
        {
            int mid = left + (right-left+1)/2;
            if(arr[mid] > arr[mid-1]) left = mid;
            else right = mid-1;
        }
        return left;

    }
};
```

题目： 162. 寻找峰值

```cpp
class Solution {
public:
    int FindMaxHead(vector<int>& nums,int left,int right)
    {
        while(left < right)
        {
            int mid = left + (right - left+1)/2;
            if(nums[mid] >nums[mid-1]) left = mid;
            else right = mid-1;
        }
        return left;
    }
    int findPeakElement(vector<int>& nums) {
        return FindMaxHead(nums,0,nums.size()-1);
    }
};
```