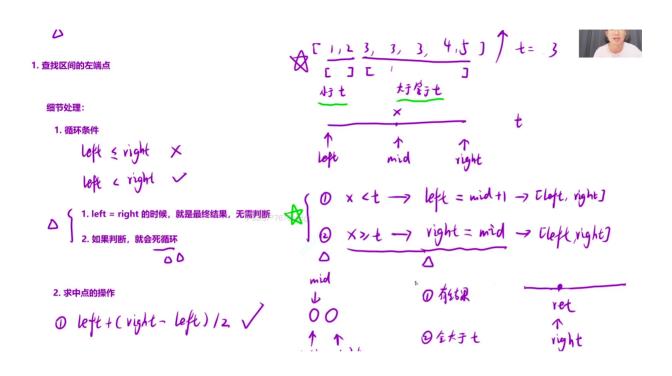
## 34. 在排序数组中查找元素的第一个和最后一个位置

二分查找不仅仅能用在有序的数组中,如果数组有明显的分区,例如左面比target小,右面比target大,这种分区,依然可以使用二分查找



```
1 class Solution {
   public:
       vector<int> searchRange(vector<int>& nums, int target) {
            if(nums.empty())
4
5
            {
                return {-1,-1};
           int n = nums.size();
8
           vector<int> ret;
9
           int left = 0;
10
           int right = n-1;
11
12
            //左端点
13
            while(left < right)</pre>
14
            {
15
                int mid = left + (right-left)/2;
16
                if(nums[mid] < target) left = mid+1;</pre>
17
                else right = mid;
18
19
            if(nums[left] != target) return {-1,-1};
20
            else ret.push_back(left);
21
22
           left = 0;
23
            right = n-1;
24
            while(left < right)</pre>
25
            {
26
                int mid = left + (right-left+1)/2;
27
                if(nums[mid] > target) right = mid-1;
28
                else left = mid;
            }
30
            ret.push_back(left);
31
            return ret;
32
       }
33
34 };
```