```
class Solution {
  public int∏ searchRange(int∏ nums, int target) {
     int[] res = new int[2];
     res[0] = -1; res[1] = -1;
     if (nums == null || nums.length == 0 ||
       nums[0] > target || nums[nums.length - 1] < target){
        return res;
     res[0] = findFirst(nums, target);
     res[1] = findLast(nums, target);
     return res:
  }
  public int findFirst(int[] nums, int target){
     int start = 0; int end = nums.length - 1;
     while(start + 1 < end){
        int mid = (start + end) / 2;
       if (nums[mid] < target){
          start = mid;
       } else {
          end = mid;
     if (nums[start] == target) return start;
     else {
       if (nums[end] == target) return end;
        else return -1;
  }
  public int findLast(int∏ nums, int target){
     int start = 0; int end = nums.length - 1;
     while(start + 1 < end){
        int mid = (start + end) / 2;
       if (nums[mid] > target){
          end = mid;
       } else {
          start = mid;
       }
     if (nums[end] == target) return end;
     else {
        if (nums[start] == target) return start;
       else return -1;
     }
  }
```

Better solutions:

```
public int[] searchRange(int[] nums, int target) {
     int left = 0, right = nums.length - 1;
     while (left <= right) {
        int mid = left + (right - left) / 2;
        if (nums[mid] == target) {
           return findRange(nums, mid);
        } else if (nums[mid] < target) {
           left = mid + 1;
        } else {
           right = mid - 1;
        }
     return new int[] {-1, -1};
  private int[] findRange(int[] nums, int index) {
     int start = index;
     while (start > 0 && nums[start] == nums[start - 1])
        start--;
     int end = index;
     while (end < nums.length - 1 && nums[end] == nums[end + 1])
        end++;
     return new int[] {start, end};
}
```