```
package leetcode.com.pickup1.hard;
/**
* Created by tclresearchamerica on 9/4/16.
* Location:
* https://leetcode.com/problems/search-in-rotated-sorted-array/
* ******************
* Description:
* Suppose a sorted array 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)
* You are given a target value to search. If found in the array return its index,
otherwise return −1.
* You may assume no duplicate exists in the array.
* thought:
* 1.写下来,画出图来,开始分析,
* 2,2分法
*/
public class No033 Search in Rotated Sorted Array {
   public int search(int[] nums, int target) {
       if (nums == null || nums == null) return -1;
       int start = 0;
       int end = nums.length - 1;
       int mid;
       while (start + 1 < end) {</pre>
          mid = start + (end - start) / 2;
          if (nums[mid] == target)
                                 return mid;
          if (nums[start] < nums[mid]) {</pre>
              if (nums[mid] > target && target >= nums[start]) {
                 end = mid;
              } else {
                 start = mid;
          } else {
              if (nums[mid] < target && target<=nums[end]) {</pre>
                 start = mid;
              } else {
                 end = mid;
              }
          }
       if (nums[start] == target) {
          return start;
       }else if (nums[end] == target) {
          return end;
       return -1;
   }
```

}