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package cn.sxt.array2;
import java.util.Arrays;
/**
 * 测试二分法查找（折半检索）
 * @author
 *江
 *
 */
public class TestBinarySearch {
    public static void main(String args[]) {
        int[] arr= {30, 20, 50, 10, 40, 60, 90, 70, 80, 12, 56, 98};
        Arrays.sort(arr);
        System.out.println(Arrays.toString(arr));
        System.out.println(myBinarySearch(arr, 40));
    }
    public static int myBinarySearch(int[] arr, int value) {
        int low=0;
        int high=arr.length-1;
        while(low<=high) {
            int mid=(high+low)/2;
            if(value==arr[mid]) {
                return mid;
            }
            if(value<arr[mid]) {
                high=mid-1;
            }
            if(value>arr[mid]) {
                low=mid+1;
            }
        }
    }
}
```

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}
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return -1;
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}
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