模版·二分查找

```
public class BinarySearch{
    public static int binarySearch(int[] arr,int target){
        int low=0;
        int high=arr.length-1;
        while(low<=high){</pre>
            int mid=low+(high-low)/2;
            if(arr[mid] = = target){
                 return mid;
            }else if(arr[mid] < target){</pre>
                 low=mid+1;
                 }else{
                 high=mid-1;
        }
        return -1;
    public static void main(String[] args){
        int[] arr={2,5,8,12,16,23,38,56,72,91};
        int target=56;
        int index=binarySearch(arr,target);
        if(index!=-1){
            System.out.println("目标的索引是:"+index);
        }else{
            System.out.println("无法找到目标");
        }
    }
}
```