import java.util.*\**;

public class biS {

public static void main(String[] args) {

ArrayList<Integer> arr = new ArrayList<>();

arr.add(1);

arr.add(11);

arr.add(14);

arr.add(8);

arr.add(3);

arr.add(11);

Collections.sort(arr);

System.out.println(arr);

int ans = binarySearch(arr, 0, arr.size());

System.out.print("key is present at index"+ans);

}

public static int binarySearch(ArrayList<Integer> arr, int left, int right){

int key = 6;

if (left <= right) {

int mid = left + (right - left) / 2;

if (arr.get(mid) == key) {

return mid;

} else if (arr.get(mid) < key) {

return binarySearch(arr, mid + 1, right);

} else {

return binarySearch(arr, left, mid - 1);

}

}

return -1;

}

}