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import java.util.Scanner;
import java.util.Collections;
import java.util.PriorityQueue:
public class heaps1 {
  // heap approach to get the K largest element from the array
  public static int get_KLargest(int[] arr, int k) {
     PriorityQueue<Integer> min_heap = new PriorityQueue<>();
     for (int i=0; i<arr.length; ++i) {
        min heap.add(arr[i]):
        if (min_heap.size() > k) {
          min heap.poll();
     return min heap.peek();
  }
  // similarly, we'll find the K smallest elemenst from the array
  private static int get KSmallest(int[] arr, int k) {
     PriorityQueue<Integer> max_heap = new PriorityQueue<>(Collections.
reverseOrder());
     for (int i=0; i<arr.length; i++) {
        max_heap.add(arr[i]);
        if (max heap.size() > k) {
          max heap.poll();
     return max_heap.peek();
  }
  public static void main(String[] args) {
     Scanner input = new Scanner(System.in);
     int sx = input.nextInt();
     int[] arr = new int[sx];
     for (int i=0; i<sx; ++i) arr[i] = input.nextInt();
     int K = input.nextInt();
     System.out.println("K Smallest:" + get_KSmallest(arr, K));
     System.out.println("\nK Largest :" + get_KLargest(arr, K));
     input.close();
  }
}
```