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//Finding the Kth largest element
import java.util.Scanner;
class Main {
    Scanner sc = new Scanner(System.in);
    public static int[] sort(int[] arr,int l, int h){
        //sorting the elements of array using quickSort
        if(l>=h){
            return arr;
        }
        int s = l;
        int e = h;
        int m = s+(e-s)/2;
        int pivot = arr[m];
        while(s<=e){
            while(arr[s]<pivot){
                s++;
            }
            while(arr[e]>pivot){
                e--;
            }
            if(s<=e){
                int temp= arr[s];
                arr[s]=arr[e];
                arr[e]=temp;
                s++;
                e--;
            }
        }
        sort(arr,l,e);
        sort(arr,s,h);
        return arr;
    }
    public static void display(int[] arr){
        //function to display array
        System.out.print("[");
        for(int i=0;i<arr.length;i++){
            System.out.print(arr[i]+" ");
        }
        System.out.print("]");
        System.out.println();
    }
    public void kLargest(int[]arr){
        //to find the kth largest element in an array
        System.out.println("Enter k:");
        int k= sc.nextInt();
        if(k<=0 || k>arr.length){
            System.out.println("Invalid value of k!");
        }
        else{
            System.out.println(arr.length-k);}
    }
    public int[] createArray(){
        // creating array from input elements
        System.out.println("Enter the size of array:");
        int size = sc.nextInt();
        int[] arr = new int[size];
    }
}

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        System.out.println("Enter the elements of array:");
        for(int i=0;i<size;i++){
            arr[i]=sc.nextInt();
        }
        return arr;
    }
    public static void main(String[] args) {
        Main h = new Main();
        int [] array=h.createArray();
        display(array);
        sort(array,0,array.length-1);
        h.kLargest(array);
    }
}
```