Set 1

Q1.

```
import java.util.Arrays;

public class SegreegatePN {

    public static void swap(int[] arr, int start, int end) {
        int temp = arr[start];
        arr[start] = arr[end];
        arr[end] = temp;
    }

    public static void main(String[] args) {
        int[] arr = new int[] { 19, -13, 15, -12, -18, -16, 1, 3 };
        int n = arr.length;
        for (int i : arr) {
            System.out.print(i + " ");
        }
        System.out.println();
        int[] narr = new int[n];
        int start = 0;
        int end = n - 1;
        // for (int i : arr) {
        // if (i < 0) {
        // narr[start++] = i;
        // } else {
        // narr[end--] = i;
```

```
        // }
        // }
        // Arrays.sort(narr);
        // for (int i : narr) {
        // System.out.print(i + " ");
        // }

        while (start < end) {
            if (arr[start] < 0) {
                start++;
            } else if (arr[end] > 0) {
                end--;
            } else {
                swap(arr, start, end);
            }

        }

        for (int i : arr) {
            System.out.print(i + " ");
        }

    }
}
```

Q2.

```
import java.util.Scanner;

public class PresentOrNot {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the size of the array");
        int n = sc.nextInt();
        System.out.println("Enter the elements");
        int[] arr = new int[n];
        for (int i = 0; i < n; i++) {
            arr[i] = sc.nextInt();
        }

        System.out.println("Enter the element which want to find in array");
        int x = sc.nextInt();
        for (int i = 0; i < n; i++) {
            if (arr[i] == x) {
                System.out.println("element is found");
                return;
            }
        }
        System.out.println("Element is not found");

    }
}
```