

Ques 1:

```
public class ThreeWayPartition {  
    static void sortColors(int[] nums) {  
        int low = 0;  
        int mid = 0;  
        int high = nums.length - 1;  
  
        while (mid <= high) {  
            if (nums[mid] == 0) {  
  
                int temp = nums[mid];  
                nums[mid] = nums[low];  
                nums[low] = temp;  
                low++;  
                mid++;  
            } else if (nums[mid] == 1) {  
                mid++;  
            } else {  
                int temp = nums[mid];  
                nums[mid] = nums[high];  
                nums[high] = temp;  
                high--;  
            }  
        }  
    }  
}  
  
public static void main(String[] args) {  
    int[] arr = {2,0,2,1,1,0};  
  
    sortColors(arr);  
    for (int num : arr) {
```

```

        System.out.print(num + " ");
    }
}
}

```

Ques 2:

```

public class ZigZagArray {
    public static void zigzagArray(int[] arr) {
        boolean isLess = true;
        for (int i = 1; i < arr.length - 1; i++) {
            if ((isLess && arr[i] > arr[i + 1]) || (!isLess && arr[i] < arr[i + 1])) {
                int temp = arr[i];
                arr[i] = arr[i + 1];
                arr[i + 1] = temp;
            }
            isLess = !isLess;
        }
    }
}

public static void main(String[] args) {
    int[] arr = {4, 3, 7, 8, 6, 2, 1};
    zigzagArray(arr);
    for (int num : arr) {
        System.out.print(num + " ");
    }
}
}

```