**JAVA PROGRAM 1:**

**Write a program that will read a sequence of positive real numbers entered by the user and will print the same numbers in sorted order from smallest to largest. The user will input a zero to mark the end of the input. Assume that at most 100 positive numbers will be entered.**

import java.util.Arrays;

import java.util.Collections;

public class GFG {

static void twoWaySort(Integer arr[], int n)

{

int l = 0, r = n - 1;

int k = 0;

while (l < r) {

while (arr[l] % 2 != 0) {

l++;

k++;

}

while (arr[r] % 2 == 0 && l < r)

r--;

if (l < r) {

int temp = arr[l];

arr[l] = arr[r];

arr[r] = temp;

}

}

Arrays.sort(arr, 0, k, Collections.reverseOrder());

Arrays.sort(arr, k, n);

}

public static void main(String[] args)

{

Integer arr[] = { 1, 3, 2, 7, 5, 4 };

twoWaySort(arr, arr.length);

System.out.println(Arrays.toString(arr));

}

}

**OUTPUT:**

