```java
1  package in.neuron.main;
2
3  public class quicksort {
4      public static int partition(int arr [],int low, int high) {
5          int pivot = arr[high];
6          int i = low-1;
7          for(int j=low;j<high;j++) {
8              if(arr[j]<pivot) {
9                  i++;
10                 int temp = arr[i];
11                 arr[i]=arr[j];
12                 arr[j]=temp;
13             }
14
15         }
16         i++;
17         int temp = arr[i];
18         arr[i]=pivot;
19         arr[high]=temp;
20         return i;
21
22     }
23     public static void quickSort(int arr[],int low,int high) {
24         if(low<high) {
25             int pidx = partition(arr,low,high);
26             quickSort(arr,low,pidx-1);
27             quickSort(arr,high,pidx+1);
28
29         }
30     }
31
32     public static void main(String[] args) {
33         int[] arr = {9,4,2,8};
34         int n = arr.length;
35         quickSort(arr,0,n-1);
36         for(int i=0;i<n;i++) {
37             System.out.print(arr[i]+" ");
38         }
39         System.out.println();
40
41
42
43     }
44
45 }
46
```