// Java program for implementation of QuickSort  
class QuickSort  
{  
   
 int partition(int arr[], int low, int high)  
 {  
 int pivot = arr[high];  
 int i = (low-1); // index of smaller element  
 for (int j=low; j<high; j++)  
 {   
 if (arr[j] <= pivot)  
 {  
 i++;  
  
 // swap arr[i] and arr[j]  
 int temp = arr[i];  
 arr[i] = arr[j];  
 arr[j] = temp;  
 }  
 }  
  
 // swap arr[i+1] and arr[high] (or pivot)  
 int temp = arr[i+1];  
 arr[i+1] = arr[high];  
 arr[high] = temp;  
  
 return i+1;  
 }  
  
  
  
 void sort(int arr[], int low, int high)  
 {  
 if (low < high)  
 {  
  
 int pi = partition(arr, low, high);  
  
   
 sort(arr, low, pi-1);  
 sort(arr, pi+1, high);  
 }  
 }  
 static void printArray(int arr[])  
 {  
 int n = arr.length;  
 for (int i=0; i<n; ++i)  
 System.*out.print(arr[i]+" ");  
 System.out.println();  
 }  
  
 // Driver program  
 public static void main(String args[])  
 {  
 int arr[] = {10, 7, 8, 9, 1, 5};  
 int n = arr.length;  
  
 QuickSort ob = new QuickSort();  
 ob.sort(arr, 0, n-1);  
  
 System.out.println("sorted array");  
 printArray(arr);  
 }  
}*