Writing a program in Java implementing the quick sort algorithm

```
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++)</pre>
    {
       if (arr[j] <= pivot)</pre>
       {
         j++;
         // 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)</pre>
  {
     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);
}
```

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