```java
package com.simply;


import java.util.Arrays;


public class Quick {
    public static void quickSort(int[] arr, int low, int high) {
        if (low < high) {
            int pivotIndex = partition(arr, low, high);
            quickSort(arr, low, pivotIndex - 1);
            quickSort(arr, pivotIndex + 1, high);
        }
    }


    public static int partition(int[] arr, int low, int high) {
        int pivot = arr[high];
        int i = low - 1;


        for (int j = low; j < high; j++) {
            if (arr[j] < pivot) {
                i++;
                swap(arr, i, j);
            }
        }


        swap(arr, i + 1, high);
        return i + 1;
    }


    public static void swap(int[] arr, int i, int j) {
        int temp = arr[i];
```

```java
            arr[i] = arr[j];

            arr[j] = temp;

        }


    public static void main(String[] args) {

        int[] array = { 8956, 2485, 8745, 1244, 1789, 678 };


        System.out.println("Array before sorting: " + Arrays.toString(array));


        quickSort(array, 0, array.length - 1);


        System.out.println("Array after sorting: " + Arrays.toString(array));

    }

}
```



```
eclipse-workspace - Algorithm/src/com/simply/Quick.java - Eclipse IDE

File  Edit  Source  Refactor  Navigate  Search  Project  Run  Window  Help

Problems @ Javadoc  Declaration  Console ×
<terminated> Quick [Java Application] C:\Users\navya\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.7.v20230425-1502\jre\bin\javaw.exe  (18-May-2023, 6:44:49 pm – 6:44:49 pm) [pid: 5960]
Array before sorting: [8956, 2485, 8745, 1244, 1789, 678]
Array after sorting: [678, 1244, 1789, 2485, 8745, 8956]
```