

```
package ap_8;
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[] = {12,6,20,11, 5};
```

```
        int n = arr.length;  
        QuickSort ob = new QuickSort();  
        ob.sort(arr, 0, n-1);  
        System.out.println("sorted array");  
        printArray(arr);  
    }  
}
```

```
<terminated> QuickSort [Java Application] C:\Users\Meljo\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win3  
sorted array  
5 6 11 12 20
```

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