

模版·快速排序

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

```
private 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;  
}
```

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

```
public static void main(String[] args){  
    int[] arr={5,2,4,1,3};  
    quickSort(arr,0,arr.length-1);  
}
```

```
        System.out.println(Arrays.toString(arr));  
    }  
}
```