swap(arr, i, j):

temp = arr[i]

arr[i] = arr[j]

arr[j] = temp

partition(arr, pivot, left, right):

pivotValue = arr[pivot]

partitionIndex = left

for (i = left, i < right, i++):

if arr[i] < pivotValue:

swap(arr, I, partitionIndex)

partitionIndex++

swap(arr, right, partitionIndex)

return partitionIndex

quickSort(arr[], left, right):

if (left < right):

pivot = right

partitionIndex = partition(arr, pivot, left, right)

quickSort(arr, left, partitionIndex - 1)

quickSort(arr, partitionIndex + 1, right)

return arr