Algorithm 1: QuickSort

```
Data: A, low, high
Result: sorted array A
// Array A, Range-left low, Range-right high
if low < high then
    p ← Partition(A, low, high);
    QuickSort(A, low, p-1);
    QuickSort(A, p+1, high);
```

Algorithm 2: Partition

```
Data: A, low, high
Result: pivot index j
// Array A, Range-left low, Range-right high
pivot ← A[high];
i ← low;
for j = low to high − 1 do
    if A[j] <= pivot then
        swap(A[i], A[j]);
        i ← i + 1;
end
swap(A[i], A[high]);
return i;
```