```
OUICKSORT(A, p, r)
1 if p < r
       // Partition the subarray around the pivot, which ends up in A[q].
       a = PARTITION(A, p, r)
       QUICKSORT (A, p, q - 1) // recursively sort the low side
       QUICKSORT(A, q + 1, r) // recursively sort the high side
```