Pseudo Code QuickSort

```
quickSort(array A, low, high) {
     // In-place sort. No need to combine sub-problems
     if (low < high) {
          pivotPoint = partition(A, low, high) // changes A
          quickSort(A, low, pivotPoint - 1)
          quicksort(A, pivotPoint + 1, high)
     }
}



int partition(array A, low, high) {
     pivotItem = A[low] // First element is pivot
     j = low

     for(i from low+1 to high) {
          if (A[i] < pivotItem) {
               j++
               swap(arr[i] and arr[j])
          }
     }

     pivotPoint = j
     swap(A[low] and A[pivotPoint])
     return pivotPoint
}
```