```
Algorithm: QuickSort
  Input: A list of integers A and two indexes low and high
  Output: A ordered from smallest to largest
 Procedure QuickSort(A, low, high)
     if low > high then
         return A
     A \leftarrow Partition (A, low, high)
     p \leftarrow PivotIndex()
     A \leftarrow QuickSort (A, low, p - 1)
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     A \leftarrow QuickSort(A, p + 1, high)
     return A
```