Task-5

The recursive function qck_srt takes a list of integers 'data'. It returns a sorted list of integers. If the length of the input list is 1, return the list. Otherwise, choose a random pivot element from the input list. Divide the input list into three sublists: elements less than the pivot, elements equal to the pivot, and elements greater than the pivot. Recursively call qck_srt on the sublists of elements less than and greater than the pivot. Concatenate the sorted sublists with the pivot element in between. The time complexity is O(nlogn) for this algorithm.