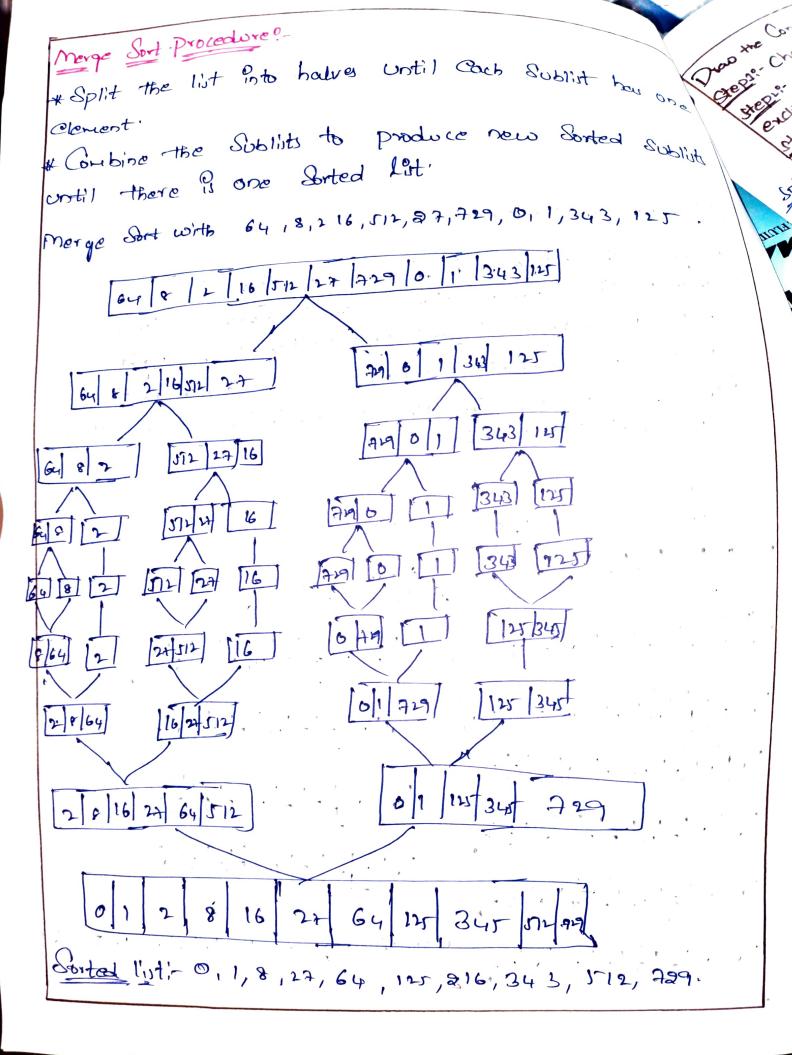
Assignment-or Name of J. Loketh Regnood 1923/1216. SUB of D.S

SUB CoDe ?- CIA0389.

with the algorithm for insertion Sort and Sort the following Sequence: 3,1141,1,5,7,2,6,5 Dapain the procedure by marge Sort and perform the marge by the following inputs Also, Show the result by each Step for Potention 64,8,216,372, 87,72,9,0,1,343,125. Algorithm for Insertion? Begin with the Second Clement in the List 1) Compare the Correct Clement to the previous clements. 3) Shift all larger clement one position to the rigit. a) Insert the corrent clement into its correct position. 5) Repeat Steps 2-4 for each Clements in the List until the entire let & Sorted. Sorting the Sequence Sequence: 3,1,4,1,5,9,2,6,5 3 14 15 91 2 65 Compare 35,1,331 Scoop 3, 1/3/4/1/1/9/2/6/5 1112345965 13/14/19/2/6/17 11 23 4 7 6 9 5 1113479265 ि। भेड भे में हरिया. 113452965 112/3/4/5/5/6/9 [1] 8 4 2 5 9 6 5 Sorted Sequence - 1,1,2,3,4, 113245965



Doo the Conpect of quick Sort Step19- Choose the highest index value how pivot variables to point left and ight of the 19th Hepri rake two excluding pivol Hope - left points to the low index using clements your own doli Algorithmi, esplect the element at the highest index as the pivot a set 1 let 4' to the low index and right to the high index 1 greator than or equal to 'right', Swapping clements on the or Swap the pivot with the clement at the left pointer Position. * Reburn the Prodox of the pivot element. while (right) = Lows a any frid Programe? > pivot) § # include cottoioh) int main() ? 90+ are[]= {64,8,216,512,27,77,013 it (Nett < right) { into size at (any sizot (an (6)) int temps arought int low-so, high=n-1; ara [rest] = dus [rejapt] while (dow < high) ? arr [right] = temp; int pivot: arr[high]; ant lett=low; let+++; and right = bigh-1; right - -; cobile (letter right) { Cohile(Lette=right & arr[lett] < 12ivot) { Left++,

and tout sanfedt); arr [lett]: arr [high]; arr (bigh) = temp; highselett-1; if (high < low) { Low = let+1; high = n+1; 3 3 Print+ ("Sorted array,"); Hor Cint ?20,1 (en , ? +++) ? Print & ("Ma", arm [i]); Print+ ("1"); Dorted avosery P. O, 1,8,27,64, 125,343,512, A29,, and the second second