

C Program to Implement merge sortAlgorithmStep 1: Input $a[i]$, n

Step 2: print entire the elements

Step 3: for ($i=0$; $i<n$; $i++$)

{

scanf ("%d", &a[i])

printf ("%d\n", a[i])

}

Step 3: Repeat step 2 until the condition becomes false

Step 4: for ($i=1$; $i<n$; $i++$)

{

j = i;

while ($j \geq 1$ & $a[j] < a[j-1]$)

{

if ($a[j] < a[j-1]$)

{

ele = $a[j]$ $a[j] = a[j-1]$ $a[j-1] = ele$

}

j = j - 1

}

}

Step 5: Repeat step 4 until test condition becomes false

Step 6: Print after merge sort

Step 7: for ($i=0$; $i<n$; $i++$)

{

printf ("%d\t", a[i]);

}

Step 8: Repeat step 7 until list condition becomes false.

Step 9: return 0

Step 10: Stop.

Flowchart