

C program to implement merge sort

Algorithm

Step 1: Start

Step 2: Input n

Step 3: Display the array elements

Repeat for $i=0$ to $n-1$

input $a[i]$

Step 4: Repeat for $i=1$ to $n-1$

$i=j$

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

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

ele = $a[j]$

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

$a[j-1] = ele$

$j = j-1$

[end for]

Step 5: Display after merge sort

Repeat for $i=0$ to $n-1$

Output $a[i]$

Step 6: Stop

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