

C program to implement merge sort

Algorithm:

Step 1: START

Step 2: Input array

Step 3:  $j = i$

Step 4: for  $i = 1$  to  $i < n - 1$   
 while ( $j \geq 1$  &&  $a[j] < a[j - 1]$ )  
 if ( $a[j] < a[j - 1]$ ) then  
 temp =  $a[j]$   
 $a[j] = a[j - 1]$   
 $a[j - 1] = temp$ ,  $j = j - 1$

Step 5: output sorted array

Step 6: Stop.

Flowchart

