

C program to implement merge sort.

Algorithm:

1. Start
2. Input array
- 3 $j = i$
4. $\text{for}(i=1; i < n-1; i++)$
 $\text{while}(j > 1 \ \& \ a[j] > a[j-1])$
 if $(a[j] < a[j-1])$ then
 $\text{temp} = a[j]$
 $a[j] = a[j-1]$
 $a[j-1] = \text{temp}.$
5. Output Sorted array
6. Stop.

Flowchart:

