

Program to implement merge sort.

### Algorithm

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

# Fibonacci

