

Merge sort implemetation 2

```
def merge_sort(values):  
  
    if len(values)>1:  
        m = len(values)//2  
        left = values[:m]  
        right = values[m:]  
        left = merge_sort(left)  
        right = merge_sort(right)  
  
        values = []  
  
        while len(left)>0 and len(right)>0:  
            if left[0]<right[0]:  
                values.append(left[0])  
                left.pop(0)  
            else:  
                values.append(right[0])  
                right.pop(0)  
  
        for i in left:  
            values.append(i)  
        for i in right:  
            values.append(i)  
  
    return values  
  
# Input list  
a = [12, 11, 13, 5, 6, 7]  
print("Given array is")  
print(*a)
```