

Merge Sort

```
def mergeSort(arr):  
    if len(arr) < 2:  
        return arr  
    mid = len(arr) // 2  
    left = mergeSort(arr[:mid])  
    right = mergeSort(arr[mid:])  
    l, r, result = 0, 0, []  
    while l < len(left) or r < len(right):  
        if l >= len(left) or (r < len(right) and left[l] > right[r]):  
            result.append(right[r])  
            r += 1  
        else:  
            result.append(left[l])  
            l += 1  
    return result
```