```
function mergeSort (data) {
   if (data.length < 2) {</pre>
       return data;
   let middle = Math.floor(data.length / 2);
   return merge(mergeSort(data.slice(0, middle)),
mergeSort(data.slice(middle)));
function merge (left, right) {
   let merged = [];
   let leftLength = left.length;
   let rightLength = right.length;
   let leftPointer = 0;
   let rightPointer = 0;
   while (leftPointer < leftLength && rightPointer < rightLength) {</pre>
       if (left[leftPointer] ≤ right[rightPointer]) {
           merged[merged.length] = left[leftPointer++];
           merged[merged.length] = right[rightPointer++];
   // 后面两个 while 是处理当左或右序列为空时,而另一个序列不为空的情况
   // 比如左边已经空了,但是右边里面还有元素,那就把右边的元素一次性推到合并数组中
   // 以下两个 while 语句可以用很多其他相同功能的语句替代:
   while (left.length > 0 && leftPointer < left.length) {</pre>
       merged[merged.length] = left[leftPointer++];
   while (right.length > 0 && rightPointer < right.length) {</pre>
       merged[merged.length] = right[rightPointer++];
   return merged;
```