

```
def sort_list(lst):  
    if len(lst) <= 2:  
        return sorted(lst)  
  
    m = len(lst) // 3  
    first_part = sort_list(lst[:m])  
    second_part = sort_list(lst[-m:])  
    third_part = sort_list(lst[m:-m])  
  
    if first_part[-1] > second_part[0]:  
        first_part, second_part =  
second_part, first_part  
  
    if second_part[-1] > third_part[0]:  
        second_part, third_part =  
third_part, second_part  
  
    return first_part + second_part +
```

third_part