

پگاه گورکانی

ساختمان داده

تمرین اول

سکشن دوشنبه

دکتر اسکندری

```
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
```