

```
1 def quicksort(arr):  
2     if len(arr) <= 1:  
3         return arr  
4     pivot = arr[len(arr) // 2]  
5     left = [x for x in arr if x < pivot]  
6     middle = [x for x in arr if x == pivot]  
7     right = [x for x in arr if x > pivot]  
8     return quicksort(left) + middle + quicksort(right)
```