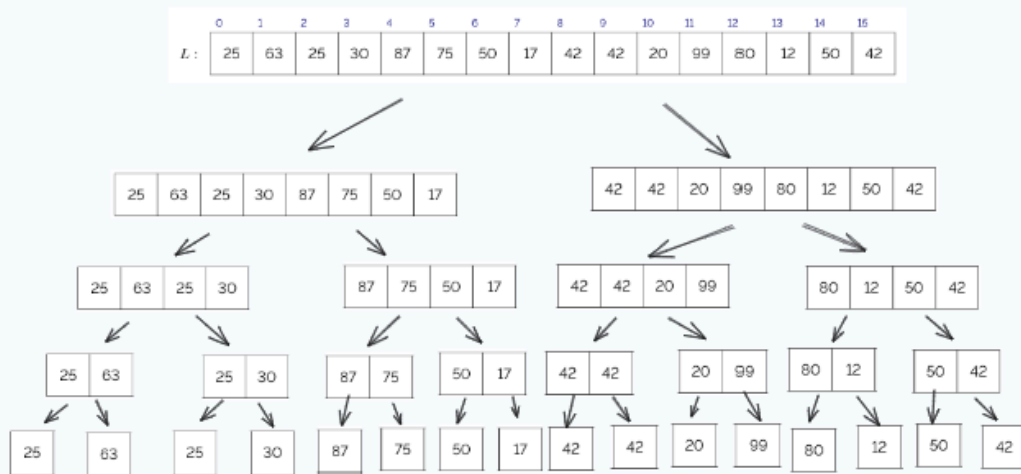
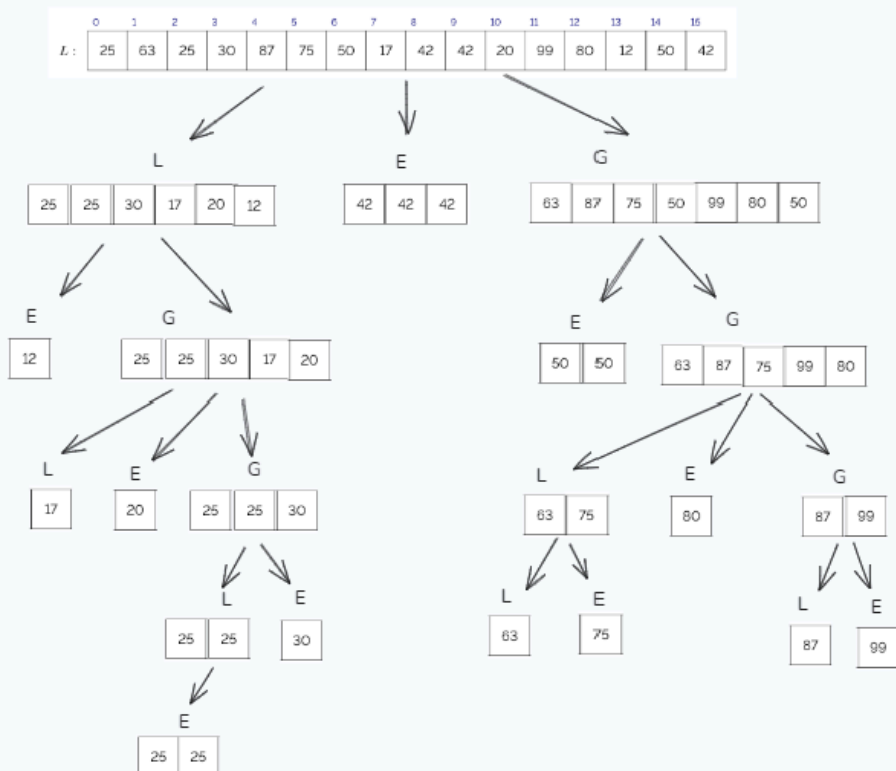


===== #
 # Raphael De Los Reyes
 # 11189672
 # gld141
 # ===== #

Merge Sort Divide Step



Quick Sort Divide Step



After sorting:

L: [12, 17, 20, 25, 25, 30, 42, 42, 42, 50, 50, 63, 75, 80, 87, 99]

AFTER the list has been sorted, WHICH elements will be examined by linear search when searching for the value 77?

-> **All elements will be examined in this order: 12, 17, 20, 25, 25, 30, 42, 42, 42, 50, 50, 63, 75, 80, 87, 99**

AFTER the list has been sorted, WHICH elements will be examined by binary search when searching for the value 77? Assume we round down to find the middle if needed

-> **Four items will be examined in this order: 42, 63, 80, 75**