

# Merge sort

1 0 3 1 2 0 1 6

1 0 3 1

1 0

swap

0 1

3 1

swap

1 3

merge



0 1 1 3

2 0 1 6

2 0

swap

0 2

1 6

leave it alone

merge

0 1 2 6

merge



0 0 1 1 2 3 6

<u>List size</u>	<u>#/calls</u>	Assume that list of 1 or 2 is base case
1	1	
2	3	
3	3	
4	7	Merge sort
8	15	Thinking about complexity
16		