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Merge sort

0	1	2	3	4	5	6
4	0	6	1	5	2	3

0	1	2	3
4	0	6	1

0	1	2
5	2	3

0	1
0	1

0	1
6	1

| 5 | 2 | | 3 |

| 4 | 0 | | 6 | 1 |

| 5 | 2 | 3 |

| 0 | 4 | 1 | 6 |

| 2 | 5 | 3 |

| 0 | 1 | 4 | 6 |

| 2 | 3 | 5 |

0	1	2	3	4	5	6

Worst case: O(nlogn)

Average case: O(nlogn)

Best case: O(nlogn)