

Aaron Luck Ice 12

1. Insertion Sort: 9 0 11 10 5 8 -7 6 8 7 5

9 0 11 10 5 8 -7 6 8 7 5	Move 0
0 9 11 10 5 8 -7 6 8 7 5	9 is sorted
0 9 11 10 5 8 -7 6 8 7 5	11 is sorted
0 9 11 10 5 8 -7 6 8 7 5	Move 10
0 9 10 11 5 8 -7 6 8 7 5	Move 5
0 5 9 10 11 8 -7 6 8 7 5	Move 8
0 5 8 9 10 11 -7 6 8 7 5	Move -7
-7 0 5 8 9 10 11 6 8 7 5	Move 6
-7 0 5 6 8 9 10 11 8 7 5	Move 8
-7 0 5 6 8 8 9 10 11 7 5	Move 7
-7 0 5 6 7 8 8 9 10 11 5	Move 5
-7 0 5 5 6 7 8 8 9 10 11	Sorted

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2, Merge Sort: 9 0 11 10 5 8 -7 6 8 7 5

9 0 11 10 5 8 | -7 6 8 7 5 1. Divide

9 0 11 | 10 5 8 -7 6 8 | 7 5

9 0 | 11 10 5 | 8 -7 6 | 8 7 | 5

9 | 0 11 10 | 5 8 -7 | 6 8 7 | 5

9 0 11 10 5 8 -7 6 8 7 5 2. Sort

0 9 10 11 5 8 -7 6 7 8 5

0 9 10 11 -7 5 6 8

-7 0 5 6 8 9 10 11

5 7 8

-7 0 5 5 6 7 8 8 9 10 11

Sorted

Note: For odd number elements, I pushed them down until we got an even number of arrays to sort