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MergeSort Assignment

* What are the advantages/disadvantages of your design above?

I am guessing this is compared to a 2 way merge-sort. The advantage of using a three way merge sort over a two way merge sort is that a three way merge sort is faster. But a three way merge sort is only faster in constant time unless your n is astronomically large.

The disadvantages of using a three way merge sort is that it is significantly more complicated to build and is more prone to errors then merge sorting with a two way. It is also easier to predict the behaver of your code using a two way merge sort than it is using a three way merge sort.

* Would you use your three-way merge sort or the typical two-way merge sort? Why?

I would use the two way merge sort. It is simpler and there is no significant difference in time and space between the two sorting algorithms.

* What is the big-oh for your mergeSort() algorithm in terms of:
  + Time? O (N Log N)
  + Space? O (N)