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CECS 424

Lab Assignment 1

Firstly, writing both sorting functions in Haskell was a lot simpler than writing them in C.

Quicksort and Mergesort, when written in Haskell, uses the Ord class. All we had to do was create an instance of Ord and the rest was done for us. On the other hand, writing the sorting functions in C did not have any shortcuts by using any abstractions to compare elements. We had to tell the compiler to iterate through arrays and how to compare the elements. Also, merging two arrays in C was a lot heavier than Haskell’s concatenate function.

The reason why Haskell’s program was a lot simpler than the program written in C is because the sorting functions are better written in a functional programming language. Haskell makes it easy to create clean and simple abstractions which is perfect for sorting lists.