Assignment 1 – C vs Haskell

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CECS 424 (Mergesort and Quicksort Algorithms)

**Question: How and why the C and Haskell implementations of the same algorithms differ?**

The code in Haskell is more simple and easy to follow as compared to C language. The code in Haskell looks short, precise and clean which makes a complex program like sorting, to be simple and easy to do as well.

In C, everything has to be written explicitly, whereas in Haskell as soon as one creates an instance of Ord class, the basic details are handled by the compiler, which means lesser stuff to code as developers. Writing each elaboration makes the program in C longer and difficult to follow. The main difference is in the fact, that Haskell is a functional programming language, whereas C is an imperative programming language. The sorting functions were meant to be coded in Functional programming languages and thus coding the same function in Haskell was easier than C. Moreover, the Concat function in Haskell makes the merge/ and combining of array simpler than writing code to join the arrays in C.