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1.2 (Algorithms as a technology) Exercise 1.2-1 Modern day global positioning devices (GPS) that provide instructions on how to get from place to place using road networks are a application that uses algorithms like discussed in this book very heavily. Exercise 1.2-2 For this exercise we want to determine the smallest value of n such that T

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1:2-2 Insertion sort beats merge sort when 8n2< 64nlgn,)n < 8lgn,)2n=8< n. This is true for 2 6 n 6 43 (found by using a calculator). Rewrite merge sort to use insertion sort for input of size 43 or less in order to improve the running time. 1-1 We assume that all months are 30 days and all years are

365.

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The solutions are all grouped by chapter. Once the remaining 5 problems are finished, I'll be preparing a combined pdf with all the solutions. Chapter 1. Chapter 2. Chapter 3. Chapter 4. Chapter 5. Chapter 6. Chapter 7.