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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 an 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.

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