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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  $8n^2 < 64n \lg n$ ,  $n < 8 \lg n$ ,  $2n = 8 < n$ . This is true for  $2 \leq n \leq 43$  (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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SOLUTIONS MANUAL Introduction to Algorithms 2nd edition by T. Cormen The solutions The solutions are based on the same sources as the lecture notes. They are written a bit more formally than the lecture notes, though a bit less formally algorithms the text.

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Introduction to algorithms 2nd ed. This edition published in 2001 by MIT Press in Cambridge, Mass.

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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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Introduction to Algorithms is a book on computer programming by Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, and Clifford Stein. The book has been widely used as the textbook for algorithms courses at many universities and is commonly cited as a reference for algorithms in published papers, with over 10,000 citations documented on CiteSeerX. The book sold half a million copies during its first 20 years. Its fame has led to the common use of the abbreviation "CLRS", or, in the first

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