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1 Data Structures and Algorithms! The material for this lecture is drawn, in part, from! The Practice of Programming (Kernighan & Pike) Chapter 2! Jennifer Rexford!

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data structures and algorithms. For the most part this book presents implementations devised by the authors themselves based on the concepts by which the respective algorithms are based

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2 Appendix A. Supplemental Resource Materials This document contains supplemental material for the book Data Structures and Algorithms in Java, third edition (DSAJ3), written by Michael T. Goodrich and Roberto Tamassia, which is published by John Wiley & Sons, Inc. in 2004.

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1 Data Structures and Algorithms 3 1.1 A Philosophy of Data Structures 4 1.1.1 The Need for Data Structures 4 1.1.2 Costs and Benefits 6 1.2 Abstract Data Types and Data Structures 8 1.3 Design Patterns 12 1.3.1 Flyweight 13 1.3.2 Visitor 14 1.3.3 Composite 15 1.3.4 Strategy 16 1.4 Problems, Algorithms, and Programs 17 1.5 Further Reading 19 1 ...

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800 East 96th Street, Indianapolis, Indiana 46240 Data Structures & Algorithms in Java Second Edition Robert Lafore 00 0672324539 fm 8/28/03 9:35 AM Page i

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the algorithms applied to the data and that, vice versa, the structure and choice of algorithms often depend strongly on the structure of the underlying data. In short, the subjects of program composition and data structures are inseparably intertwined. Yet, this book starts with a chapter on data structure for two reasons.

### **Algorithms and Data Structures - Oberon**

decisions about structuring data cannot be made without knowledge of the algorithms applied to the data and that, vice versa, the structure and choice of algorithms often depend strongly on the structure of the underlying data. In short, the subjects of program composition and data structures are inseparably intertwined.

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structures and algorithms. Data structures are that important; they improve our quality of life and even save lives on a regular basis. Many multi-million and several multi-billion dollar companies have been built around data structures. How can this be? If we stop to think about it, we realize that we interact with data structures constantly.

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