

<<数据结构与算法>>

图书基本信息

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前言

The study of data structures and algorithms is critical to the development of the professional programmer. There are many, many books written on data structures and algorithms, but these books are usually written as college textbooks and are written using the programming languages typically taught in college—Java or C++. C# is becoming a very popular language and this book provides the C# programmer with the opportunity to study fundamental data structures and algorithms. C# exists in a very rich development environment called the .NET Framework. Included in the .NET Framework library is a set of data structure classes (also called collection classes), which range from the Array, ArrayList, and Collection classes to the Stack and Queue classes and to the Hashtable and the SortedList classes. The data structures and algorithms student can now see how to use a data structure before learning how to implement it. Previously, an instructor had to discuss the concept of, say, a stack, abstractly until the complete data structure was constructed. Instructors can now show students how to use a stack to perform some computation, such as number base conversions, demonstrating the utility of the data structure immediately. With this background, the student can then go back and learn the fundamentals of the data structure (or algorithm) and even build their own implementation. This book is written primarily as a practical overview of the data structures and algorithms all serious computer programmers need to know and understand. Given this, there is no formal analysis of the data structures and algorithms covered in the book. Hence, there is not a single mathematical formula and not one mention of Big Oh analysis (if you don't know what this means, look at any of the books mentioned in the bibliography). Instead, the various data structures and algorithms are presented as problem-solving tools.

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内容概要

本书是第一本关于在.NET框架下用C#语言实现数据结构与算法的教材。

本书内容丰富，不仅涵盖了基本数据结构与算法的知识，而且还介绍了诸如可靠性算法和动态程序设计之类的高等数据结构的内容。

本书的实用性强，介绍了数组与数组列表、链表、哈希表、词典、树、图，以及查找与排序算法，并且还介绍一些高等数据结构算法，如可靠性算法、动态程序设计等。

本书是C#专业人员和学生学习数据结构与算法的很好用书。

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章节摘录

插图： SUMMARY This chapter reviews three important techniques we will use often in this book. Many, though not all of the programs we will write, as well as the libraries we will discuss, are written in an object-oriented manner. The Collection class we developed illustrates many of the basic OOP concepts seen throughout these chapters. Generic programming allows the programmer to simplify the definition of several data structures by limiting the number of methods that have to be written or overloaded. The Timing class provides a simple, yet effective way to measure the performance of the data structures and algorithms we will study.

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