

Data Structures And Algorithms Using C

CHAPTER 1

An Introduction to Collections, Generics, and the Timing Class

This book discusses the development and implementation of data structures and algorithms using C#. The data structures we use in this book are found in the .NET Framework class library System.Collections. In this chapter, we develop the concept of a collection by first discussing the implementation of our own Collection class (using the array as the basis of our implementation) and then by covering the Collection classes in the .NET Framework.

An important addition to C# 2.0 is generics. Generics allow the C# programmer to write one version of a function, either independently or within a class, without having to overload the function many times to allow for different data types. C# 2.0 provides a special library, System.Collections.Generic, that implements generics for several of the System.Collections data structures. This chapter will introduce the reader to generic programming.

Finally, this chapter introduces a custom-built class, the Timing class, which we will use in several chapters to measure the performance of a data structure and/or algorithm. This class will take the place of Big O analysis, not because Big O analysis isn't important, but because this book takes a more practical approach to the study of data structures and algorithms.

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Author :Michael McMillan / **Category :**Computers / **Total Pages :** 355 pages



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Summary : Free data structures and algorithms using c pdf download - michael mcmillan discusses the implementation of data structures and algorithms from the net framework the comprehensive text includes basic data structures and algorithms plus advanced algorithms such as probabilistic algorithms and dynamics programming

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