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Abstract

This textbook pursues a modern approach to the C programming language. It begins by examining the recent standards of the language and introduces the features of C that provide its capabilities and strong flexibility. Next, it explores the role of the preprocessor, code partitioning, test-driven development, debugging tools, static and dynamic code analysis tools, libraries, style issues, building graphical user interfaces, and interaction with other programming languages such as Python, etc. The writing team for this textbook aims to serve as a useful guide for anyone who wants to use the C language today and assist them in exploring the language's capabilities and the joy of programming with it.