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using malloc calloc and free Part 2 C Programming Fundamentals Chapter 7 Introducing C This chapter provides an introduction to C highlighting its objectoriented features and comparing it to C Chapter 8 ObjectOriented Programming This chapter covers the fundamental concepts of objectoriented programming OOP including classes objects data abstraction encapsulation inheritance and polymorphism Chapter 9 Classes This chapter dives deeper into classes discussing class definitions constructors destructors member functions data members and access specifiers Chapter 10 Inheritance This chapter explores the concept of inheritance including base classes derived classes single inheritance multiple inheritance and virtual base classes Chapter 11 Polymorphism This chapter covers polymorphism including function overloading operator overloading and virtual functions Part 3 Advanced C Features Chapter 12 Exception Handling This chapter introduces exception handling in C covering exception classes try blocks catch blocks throw statements and exception specifications Chapter 13 Stream InputOutput This chapter discusses stream input and output in C including iostream objects formatted inputoutput file inputoutput and string streams Chapter 14 Templates This chapter explores the concept of templates including function templates class templates and template specialization Chapter 15 Standard Template Library STL This chapter introduces the STL covering containers like vectors lists sets and maps as well as algorithms and iterators Chapter 16 Advanced C Topics This chapter delves into advanced C topics like namespaces dynamiccast reinterpretcast constcast staticcast and other advanced features 3 Part 4 Appendices Appendix A C Reserved Words This appendix provides a list of reserved words in the C programming language Appendix B C Operators This appendix lists the different operators available in C including arithmetic relational logical bitwise and assignment operators Appendix C ASCII Character Set This appendix displays the American Standard Code for Information Interchange ASCII character set Appendix D Answers to Selected Exercises This appendix provides answers to selected exercises from the book Appendix E Index This appendix provides a comprehensive index for easy navigation within the book 3 Benefits of Using C How to Program C How to Program is a wellregarded resource for learning C programming due to several key benefits Comprehensive Coverage The book covers a wide range of C programming concepts from basic syntax to advanced features making it suitable for beginners and experienced programmers Clear and Concise Explanations The authors use clear and concise language to explain complex programming concepts making them easier to understand for students Practical Examples The book includes numerous practical examples and exercises to reinforce learning and help students apply their knowledge to realworld scenarios RealWorld Projects The book includes several realworld projects like developing simple games and utility programs to provide practical experience and showcase the application of C programming skills Visual Aids C How to Program

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