

## 8051 Projects With Source Code Quickc

PIC Microcontrollers are a favorite in industry and with hobbyists. These microcontrollers are versatile, simple, and low cost making them perfect for many different applications. The 8-bit PIC is widely used in consumer electronic goods, office automation, and personal projects. Author, Dogan Ibrahim, author of several PIC books has now written a book using the PIC18 family of microcontrollers to create projects with SD cards. This book is ideal for those practicing engineers, advanced students, and PIC enthusiasts that want to incorporate SD Cards into their devices. SD cards are cheap, fast, and small, used in many MP3 players, digital and video cameras, and perfect for microcontroller applications. Complete with Microchip's C18 student compiler and using the C language this book brings the reader up to speed on the PIC 18 and SD cards, knowledge which can then be harnessed for hands-on work with the eighteen projects included within. Two great technologies are brought together in this one practical, real-world, hands-on cookbook perfect for a wide range of PIC fans. Eighteen fully worked SD projects in the C programming language Details memory cards usage with the PIC18 family

Ready-to-build 8051 microcontroller projects--at your fingertips. Probably the most successful microcontroller on the market today, Intel's legendary 8051 lives on in enhanced versions sold by more than 20 chip manufacturers. Packed with over 30 experiments using Dallas Semiconductor's "HSM" flavors of the 8051 plus the Atmel AT89Cx051 "Flash" based versions, Myke Predko's Programming and Customizing the 8051 Microcontroller puts you in control of the 8051's architecture and instruction set--and even supplies a baker's dozen of ready-to-build example applications, programs and circuits. (You'll see how to create an Atmel AT89Cx061 programmer...a device emulator that exploits the 8051's ability to access external memory...a robot based on the Tamiya "Wall Hugging Mouse"--complete with a TV remote control interface...two real-time 8051 operating systems...and many other exciting projects). Best of all, the included CD-ROM supplies source code for the book's experiments and applications, a demonstration cop of the "UMPS" integrated development environment (IDE), and data sheets for the Dallas Semiconductor and Atmel 8051 compatible devices.

Four billion, and counting. That's the number of microcontrollers already shipped in products from toys to satellites. This much-needed reference is the first guide to cover all the most common types of microcontrollers. With its from-the-bottom-up approach, this book/CD-ROM package gives you all the information you need to simplify the job of selecting the right microcontroller and writing an application for it. From the basics to hands-on applications, projects, and experiments, this book gives both professionals and high-level hobbyists real tools for choosing the right microcontroller and getting the most out of it. With a wealth of comparison charts, software tools, and state-of-the-art information, this reference is one that you'll turn to again and again.

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Monitoring · Structural Health Monitoring by In-Situ Materials Analysis · Monitoring of Tension Members of Civil Structures—New Concepts and Testing · Damage Evaluation and Crack Detection in Steel Structures using Lockin-Thermography · Detection of Structural Changes by Means of Piezo Discs · Life Cycle Assessment of Welded Components with Help of Nondestructive Testing Methods AEROSPACE APPLICATIONS · An Overview of the FLPP Technology Developments in Structures Health Monitoring for the European Next Generation Launcher · Damage Detection on Aerospace Structures: Last Developments at EADS · Flight Demonstration: Health Monitoring for Bonded Structural Repairs · Implementation of an Experimental System for Structural Health Monitoring in a Turboprop Commercial Aircraft · Structure Condition Monitoring with Passive Tags · Procedures for the Assessment of Structural Health Monitoring Potentials · Evaluation of Crack and Corrosion Detection Sensitivity using Piezoelectric Sensor Arrays · A High Resolution Health Monitoring System for Bonded Composite Repairs using a Spatially Sparse Fiber Bragg Grating Sensor Net · A Development and Application Test of Brillouin Scattering Sensing Method for Aircraft Structural Health Monitoring · Damage Growth Detection of Aircraft Bonding Structure under Cyclic Loading using FBG/PZT Hybrid Sensor System · SHM with Embedded Fibre Bragg Gratings and Piezoelectric Devices · Monitoring of Interfacial Crack Growth of Stiffened Panel with Embedded Fiber Bragg Grating Sensors · Advanced Phased Array System for Structural Damage Detection · Nonlinear Vibro-Acoustic Modulation Technique for Life Prediction of Aging Aircraft Components · Global Crack Detection for Aircraft Monitoring using Bispectral Analysis · Evaluation of Impact Tests on the TANGO Barrel by Means of Fibre Bragg Grating Sensor (FBGS) Measurements · Ultrasonic Wave Modulations for Damage Detection in Metallic Structures · Characterization and Modeling of Bonded Piezoelectric Sensor Performance and Durability in Simulated Aircraft Environments ARTIMA · ARTIMA: Aircraft Reliability Through Intelligent Materials Applications · Damage Detection in Plates using Transducers Mounted on Viscoelastic Damping Layers · Experimental Investigation of Elastic Waves Propagation 1D and 2D Structures with Faults · Elastic Wave Propagation in a Cracked Isotropic Plate · Comparison of Health Monitoring Systems with Fiber Bragg Grating and Piezoelectric Sensors · Rotor Blade Integrated Sensor for Monitoring of BVI Caused Pressures Fluctuations SHM APPLICATIONS TO BRIDGES · Structural Health Monitoring of a Steel Railway Bridge using Optical Fibre Bragg Grating Sensors and Numerical Simulation · Computational Validation of a Forced-Vibration Method for Structural Health Monitoring of Large-Scale Structures · Bridge Health Monitoring for Egnatia Odos Bridge Management System · Analysis of Structural Health Monitoring Data from the Suspension Jiangyin Bridge · The Long Term Structural Health Monitoring of Bridges in the State of Connecticut · Data Processing for Safety Control of Birdges in Real Time SHM APPLICATIONS TO BUILDINGS · Networked Health Monitoring System for Buildings and its Data Model · Experimental Validation of a Technique for Seismic Damage Identification in Buildings · Experimental Study on Localization and Quantification of Structural Damage using ZigBee Motes · Structural Damage Detection using a Time Windowing Technique from Measured Acceleration during Earthquake · Identifying Damage in the ASCE Benchmark Structure using a Neural-Wavelet Module · Distributed-Cooperative Problem Solving in SHM using Multi-Level Intelligence SHM APPLICATIONS IN CIVIL ENGINEERING · Recent Structural Health Monitoring Applications in Italy · Monitoring Temperature and Water Imbibition in Litic Materials by Embedded FBG · Early Damage Detection System for Tower and Rotor Blades of Offshore Wind Turbines · Monitoring the Disbond of Externally Bonded CFRP Composite Strips for Rehabilitation of Bridges · Advances in Manufacture of Smart Prestressed Reinforced Concrete Elements · Long Base Optical Fiber Extensometers Sense Structural Geometrical Nonlinearities DAMAGE DETECTION ALGORITHMS · Damage Localization in a Stiffened Structure-Comparison of Different Methods · Handling the Temperature Effect in SHM: Combining a Subspace Based Statistical Test and a Temperature-Adjusted Null Space · Transient Statistical Energy Analysis Applied to Damage Detection · Nonlinear Model

Updating Based on System Augmentation for Nonlinear Damage Detection · Damage Identification of Cables via Virtual Distortion Method · Stiffness Matrix Estimation via Differential Evolution Algorithm · Embedding SHM Algorithms into a Microcontroller for Real-Time and Fully-Automated Civil Applications · Damage Identification using Curvatures and Sensitivities of Frequency-Response-Functions · An Enhanced Principal Component Analysis for Structural Health Monitoring · Damage Identification Inverse Problem for a Piezoelectric Material · A Negative Selection Approach to Novelty Detection in a Changing Environment · Vibration-Based Fault Detection and Assessment in a Scale Aircraft Structure via Stochastic VFP-ARX Models · A Roughness Index for Detecting Damage in Plates · Inverse Problem Filtering for Noise Reduction in QNDE · Multivariate Statistics Process Control for Dimensionality Reduction on Structural Health Monitoring · Diagnostic System of Cylindrical Shell Based on Experimental Modes and Wavelet Analysis · Online Force Reconstruction using Robust Observers · Use of Bispectral Analysis in Condition Monitoring of Machinery · Removing Non-Linear Environmental Influences from Structural Features · Quantification of Uncertainty in Damage Detection Techniques · Damage Detection in Structures and Control Systems using Realization Redundancy and Outlier Analysis · Defects Identification in Rods via the Wavelet Transform of Transient Vibrations · Design of Experiments based Variability Analysis of Damage Detection Methods in Structural Components · A Posteriori Impact Identification · Feature Selection for a Neural Network Damage Diagnostic using a Genetic Algorithm · Sequential LS-SVM for Structural System Identification · Time Series Methods for Fault Detection and Identification in Vibrating Structures · Monitoring of Delamination Defects in Composite Beams · Identification of Stiffness Variation in Structural Systems by Modified Littlewood-Paley Wavelets · A Neural Network Based Health Monitoring Methodology for Co-Cured/Co-Bonded Composite Aircraft Structures · Crack Identification in the Complex Beam-Type Structures Based on Frequency Data DAMAGE DETECTION EXPERIMENTAL METHODS · Simulation Based Health Assessment of Engineering Structures · Thermal Damage Identification in Metallic Honeycomb Thermal Protection System Panels using Active Distributed Sensing with the Method of Virtual Forces · Merging Sensor Data from Multiple Temperature Scenarios for Vibration-Based Monitoring of Civil Structures · Development of a Non-Contact Defect Detection System for Railroad Tracks for the US Federal Railroad Administration · Detection of Damages in Beams and Composite Plates by Harmonic Excitation and Time-Frequency Analysis · Reliability Study of Thermocouple Array Instrumented on a Titanium Plate using Modal Impacts and Piezo Actuation · Modal Analysis and Damage Detection by Fiber Bragg Grating Sensors · Active Sensing for Disbond Detection in CFRP Strengthened RC Beam · Advanced Self-Sufficient Structural Health Monitoring System · Damage Detection Based on Structural Stiffness and Experimental Verification · An Acoustic Emission Based SHM Technique for Aircraft Applications · Detection and Characterization of High-Velocity Impact Damage in Composite Laminates using PVDF Sensor Signals · Experimental Impact Force Identification of Composite Structures · 2D Layerwise Modeling of High-Frequency Modal Response in Delaminated Composite Beams with Active Piezoelectric Sensors · Wavelet-Based Analysis of Concentrically Braced Frames Subjected to Seismic Loading · Real Time Dynamic Mass Identification · Processing Effects and Structural Integrity of Fabric Reinforced Thin-Walled Composite Components · Compressive Properties of Polymer Laminates Containing Internal Sensor Cavities FIBRE OPTIC SENSORS · Fibre Optic Sensors for Lamb Wave Detection · Carbon Nanotubes-Based Optical Sensor for Hydrogen Detection at Cryogenic Temperature · Structural Health Monitoring System for Detecting Impact Events and Acoustic Emissions · Structural Health Monitoring of Bonded Composite Repairs using Embedded Fiber Bragg Grating Sensors and Neural Networks · 1932078592\\TABLE OF CONTENTS

The 8051 architecture developed by Intel has proved to be the most popular and enduring type of microcontroller, available from many manufacturers and widely used for industrial applications and embedded systems as well as being a versatile and economical option for

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design prototyping, educational use and other project work. In this book the authors introduce the fundamentals and capabilities of the 8051, then put them to use through practical exercises and project work. The result is a highly practical learning experience that will help a wide range of engineers and students to get through the steepest part of the learning curve and become proficient and productive designing with the 8051. The text is also supported by practical examples, summaries and knowledge-check questions. The latest developments in the 8051 family are also covered in this book, with chapters covering flash memory devices and 16-bit microcontrollers. Dave Calcutt, Fred Cowan and Hassan Parchizadeh are all experienced authors and lecturers at the University of Portsmouth, UK. Increase design productivity quickly with 8051 family microcontrollers Unlock the potential of the latest 8051 technology: flash memory devices and 16-bit chips Self-paced learning for electronic designers, technicians and students

This book is ideal for the engineer, technician, hobbyist and student who have knowledge of the basic principles of PIC microcontrollers and want to develop more advanced applications using the 18F series. The architecture of the PIC 18FXXX series as well as typical oscillator, reset, memory, and input-output circuits is completely detailed. After giving an introduction to programming in C, the book describes the project development cycle in full, giving details of the process of editing, compilation, error handling, programming and the use of specific development tools. The bulk of the book gives full details of tried and tested hands-on projects, such as the 12C BUS, USB BUS, CAN BUS, SPI BUS and real-time operating systems. A clear introduction to the PIC 18FXXX microcontroller's architecture 20 projects, including developing wireless and sensor network applications, using I2C BUS, USB BUS, CAN BUS and the SPI BUS, which give the block and circuit diagram, program description in PDL, program listing and program description Numerous examples of using developmental tools: simulators, in-circuit debuggers (especially ICD2) and emulators

Mcs51 Architectural Overview | Memory Organization | Instruction Set And Addressing Modes | Structure Of Assembly Language | I/O Ports Programming | Simple Programs | Timers | Serial Communication | Interuppt Structure | Data Acquisition System | Software CD-ROM contains: Source code -- Java 2 Software Development Kit, standard edition version 1.4 for Windows; Forte for Java, release 3.0 Community edition; Java 2 Platform, micro edition, Wireless Toolkit 1.0.3.

Microcomputer development language; Microcomputer software development tools; In circuit emulators; Network development systems; Microcomputer development systems; System design kits; PROM programming; EPLD development tools.

This book is a thoroughly practical way to explore the 8051 and discover C programming through project work. Through graded projects, Dogan Ibrahim introduces the reader to the fundamentals of microelectronics, the 8051 family, programming in C, and the use of a C compiler. The specific device used for examples is the AT89C2051 - a small, economical chip with re-writable memory, readily available from the major component suppliers. A working knowledge of microcontrollers, and how to program them, is essential for all students of electronics. In this rapidly expanding field many students and professionals at all levels need to get up to speed with practical microcontroller applications. Their rapid fall in price has made microcontrollers the most exciting and accessible new development in electronics for years - rendering them equally popular with engineers, electronics hobbyists and teachers looking for a fresh range of projects. Microcontroller Projects in C for the 8051 is an ideal resource for self-study as well as providing an interesting, enjoyable and easily mastered alternative to more theoretical textbooks. Practical projects that enable students and practitioners to get up and running straight away with 8051 microcontrollers A hands-on introduction to practical C programming A wealth of project ideas for students and enthusiasts

In this practical reference, popular author Lewin Edwards shows how to develop robust, dependable real-time systems for robotics and other

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control applications, using open-source tools. It demonstrates efficient and low-cost embedded hardware and software design techniques, based on Linux as the development platform and operating system and the Atmel AVR as the primary microcontroller. The book provides comprehensive examples of sensor, actuator and control applications and circuits, along with source code for a number of projects. It walks the reader through the process of setting up the Linux-based controller, from creating a custom kernel to customizing the BIOS, to implementing graphical control interfaces. Including detailed design information on: · ESBUS PC-host interface · Host-module communications protocol · A speed-controlled DC motor with tach feedback and thermal cut-off · A stepper motor controller · A two-axis attitude sensor using a MEMS accelerometer · Infrared remote control in Linux using LIRC · Machine vision using Video4Linux The first-ever book on using open source technology for robotics design! Covers hot topics such as GPS navigation, 3-D sensing, and machine vision, all using a Linux platform!

Embedded Systems: An Integrated Approach is exclusively designed for the undergraduate courses in electronics and communication engineering as well as computer science engineering. This book is well-structured and covers all the important processors and their applications in a sequential manner. It begins with a highlight on the building blocks of the embedded systems, moves on to discuss the software aspects and new processors and finally concludes with an insightful study of important applications. This book also contains an entire part dedicated to the ARM processor, its software requirements and the programming languages. Relevant case studies and examples supplement the main discussions in the text.

Authored by two of the leading authorities in the field, this guide offers readers the knowledge and skills needed to achieve proficiency with embedded software.

The increasing demand for electronic devices for private and industrial purposes lead designers and researchers to explore new electronic devices and circuits that can perform several tasks efficiently with low IC area and low power consumption. In addition, the increasing demand for portable devices intensifies the call from industry to design sensor elements, an efficient storage cell, and large capacity memory elements. Several industry-related issues have also forced a redesign of basic electronic components for certain specific applications. The researchers, designers, and students working in the area of electronic devices, circuits, and materials sometimes need standard examples with certain specifications. This breakthrough work presents this knowledge of standard electronic device and circuit design analysis, including advanced technologies and materials. This outstanding new volume presents the basic concepts and fundamentals behind devices, circuits, and systems. It is a valuable reference for the veteran engineer and a learning tool for the student, the practicing engineer, or an engineer from another field crossing over into electrical engineering. It is a must-have for any library.

This totally reworked book combines two previous books with material on networking. It is a complete guide to programming and interfacing the 8051 microcontroller-family devices for embedded applications.

Die Zielsetzung des Projektes ist es, einen Mikrocontroller "C8051 F0200" von „Silicon Laboratories“ zu programmieren und dabei das Hochzählen im Sekundentakt zu realisieren. Die Programmierung des Mikrocontrollers kann sowohl mit „Visual C++ 2010 Express“ als auch mit der beigelegten Development Software IDE auf „C-Basis“ durchgeführt werden. Der dabei entstehende Programmcode soll charakterisiert und anschließend auf einer 7-Segmentanzeige ausgegeben werden. Diese Arbeit stellt im weiteren Sinne eine Dokumentation der einzelnen Entwurfsschritte da und möge die Funktionalität der dabei entstehenden Digitaluhr beweisen. Dabei ist vorrangig auf die Möglichkeit der Umsetzung im Labormaßstab bei minimalen Kosten zu achten.

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This tutorial/disk package is unique in providing you with a complete understanding of the 8051 chip compatibles along with all the information needed to design and debug tailor-made applications using. Programming & Customizing the 8051 Microcontroller details the features of the 8051 and demonstrates how to use these embedded chips to access and control many different devices. This book shows you what happens within the 8051 when an instruction is executed, and it demonstrates how to interface 8051's with external devices.

A collection of unusual projects for computer hardware geeks of all ages explains how to create such projects as a personal Lojack system, Web-enabled coffee machine, cubicle intrusion detection systems, and a laptop battery extender.

Embedded Software Development With C offers both an effectual reference for professionals and researchers, and a valuable learning tool for students by laying the groundwork for a solid foundation in the hardware and software aspects of embedded systems development. Key features include a resource for the fundamentals of embedded systems design and development with an emphasis on software, an exploration of the 8051 microcontroller as it pertains to embedded systems, comprehensive tutorial materials for instructors to provide students with labs of varying lengths and levels of difficulty, and supporting website including all sample codes, software tools and links to additional online references.

The purpose of this book is to present the technology required to develop hardware and software for embedded controller systems at a fraction of the cost of traditional methods. Included in the book are hardware schematics of 8051 family development systems (single board and bussed 8051 microcontroller). Source code for both the 8086 and 805 family FORTH operating systems is published in the book. Binary images of the operating systems can be generated from the source code using the metacompiler also contained in the book. The book can be seen as a "toolbox" including all the necessary hardware and software information to be used in constructing 8051-based controller systems.

This textbook serves as an introduction to the subject of embedded systems design, with emphasis on integration of custom hardware components with software. The key problem addressed in the book is the following: how can an embedded systems designer strike a balance between flexibility and efficiency? The book describes how combining hardware design with software design leads to a solution to this important computer engineering problem. The book covers four topics in hardware/software codesign: fundamentals, the design space of custom architectures, the hardware/software interface and application examples. The book comes with an associated design environment that helps the reader to perform experiments in hardware/software codesign. Each chapter also includes exercises and further reading suggestions. Improvements in this second edition include labs and examples using modern FPGA environments from Xilinx and Altera, which will make the material in this book applicable to a greater number of courses where these tools are already in use. More examples and exercises have been added throughout the book. "If I were teaching a course on this subject, I would use this as a resource and text. If I were a student who wanted to learn codesign, I would look for a course that at least used a similar approach. If I were an engineer or engineering manager

who wanted to learn more about codesign from a very practical perspective, I would read this book first before any other. When I first started learning about codesign as a practitioner, a book like this would have been the perfect introduction.”

--Grant Martin, Tensilica--

This book written for experienced developers, uses examples and case studies, rather than rules and lessons. The 8051 family is the most popular chip used in consumer products today. This book is the companion volume to Schultz's earlier title, *C and the 8051: Programming for Multitasking*.

CD-ROM contains: Source code in 'C' for patterns and examples -- Evaluation version of the industry-standard Keil 'C' compiler and hardware simulator.

- \* A much-needed clearinghouse for information on amateur and educational robotics, containing over 2,500 listings of robot suppliers, including mail order and local area businesses
- \* Contains resources for both common and hard-to-find parts and supplies
- \* Features dozens of "sidebars" to clarify essential robotics technologies
- \* Provides original articles on various robot-building topics

C and the 8051PageFree Publishing, Inc.

A practical guide to building PIC and STM32 microcontroller board applications with C and C++ programming Key Features Discover how to apply microcontroller boards in real life to create interesting IoT projects Create innovative solutions to help improve the lives of people affected by the COVID-19 pandemic Design, build, program, and test microcontroller-based projects with the C and C++ programming language Book Description We live in a world surrounded by electronic devices, and microcontrollers are the brains of these devices. Microcontroller programming is an essential skill in the era of the Internet of Things (IoT), and this book helps you to get up to speed with it by working through projects for designing and developing embedded apps with microcontroller boards. DIY Microcontroller Projects for Hobbyists are filled with microcontroller programming C and C++ language constructs. You'll discover how to use the Blue Pill (containing a type of STM32 microcontroller) and Curiosity Nano (containing a type of PIC microcontroller) boards for executing your projects as PIC is a beginner-level board and STM-32 is an ARM Cortex-based board. Later, you'll explore the fundamentals of digital electronics and microcontroller board programming. The book uses examples such as measuring humidity and temperature in an environment to help you gain hands-on project experience. You'll build on your knowledge as you create IoT projects by applying more complex sensors. Finally, you'll find out how to plan for a microcontroller-based project and troubleshoot it. By the end of this book, you'll have developed a firm foundation in electronics and practical PIC and STM32 microcontroller programming and interfacing, adding valuable skills to your professional portfolio. What you will learn Get to grips with the basics of digital and analog electronics Design, build, program, and test a microcontroller-based system Understand the importance and applications of STM32 and PIC microcontrollers Discover how to connect sensors to microcontroller boards Find out how to obtain sensor data via coding Use microcontroller boards in real life

and practical projects Who this book is for This STM32 PIC microcontroller book is for students, hobbyists, and engineers who want to explore the world of embedded systems and microcontroller programming. Beginners, as well as more experienced users of digital electronics and microcontrollers, will also find this book useful. Basic knowledge of digital circuits and C and C++ programming will be helpful but not necessary.

Internet of Things with 8051 and ESP8266 provides a platform to get started with the Internet of Things (IoT) with 8051. This book describes programming basics and how devices interface within designed systems. It presents a unique combination of 8051 with ESP8266 and I/O devices for IoT applications supported by case studies to provide the solutions to real-time problems. The programs and circuits have been tested on real hardware and explore different areas in IoT applications. Divided into four sections, it explains the customized boards for IoT applications followed by the means by which 8051 and ESP8266 interface with I/O devices. It spans levels from basic to advanced interfacing with special devices, server design, and data logging with different platforms. Features: Covers how I/O devices interface with 8051 and ESP8266 Explains the basic concepts of interfacing complexity using applications with examples Provides hands-on practice exercises with 8051 and ESP8266 for IoT applications Discusses both case studies and programming tests on real hardware during industrial and student projects Reviews the integration of smart devices with IoT Internet of Things with 8051 and ESP8266 is intended for senior undergraduate and graduate students in electrical and electronics engineering, but anyone with an interest in the professional curriculum of electrical and electronics engineering will find this book a welcome addition to their collection.

Unlike traditional embedded systems references, this book skips routine things to focus on programming microcontrollers, specifically MCS-51 family in 'C' using Keil IDE. The book presents seventeen case studies plus many basic programs organized around on-chip resources. This "learn-through-doing" approach appeals to busy designers. Mastering basic modules and working hands-on with the projects gives readers the basic building blocks for most 8051 programs. Whether you are a student using MCS-51 microcontrollers for project work or an embedded systems programmer, this book will kick-start your practical understanding of the most popular microcontroller, bridging the gap between microcontroller hardware experts and C programmers.

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