

## Distributed Database Systems

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### Product Description

This book is meant for a wide range of readers, especially college and university students wishing to learn basic as well as advanced processes and techniques of distributed database system. It is intended for those who are professionally interested in having an up-to date view of distributed data processing, including, for example, students and teachers of course in computer science, researchers, system managers, application designers, analysts and programmers. A distributed database system is , in brief an integrated database which is built on top of a computer network rather than on a single computer. The data which constitute the database are stored at the different sites of the computer network. And the application programs which are run by the computers access data at different sites. Modern aspects of distributed database systems have been introduced from the first principles and discussed in an easy manner, so that a beginner can grasp the concepts of disturbed database, its design and architecture level, distributed query processing and optimization, distributed transaction management, distributed concurrency control and reliability, distributed deadlock management, distributed recovery and security management, etc. Each chapter contains solved example problems and exercise problems.



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## Table of Contents

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**Chapter 1:** Distributed Database Concepts. **Chapter 2:** Distributed Database Design. **Chapter 3:** Distributed Database System Architecture. **Chapter 4:** Distributed Query Processing. **Chapter 5:** Distributed Query Optimization. **Chapter 6:** Distributed Transaction Management. **Chapter 7:** Distributed Concurrency Control. **Chapter 8:** Distributed Deadlock Management. **Chapter 9:** Distributed Recovery Management. **Chapter 10:** Distributed Database Administration.

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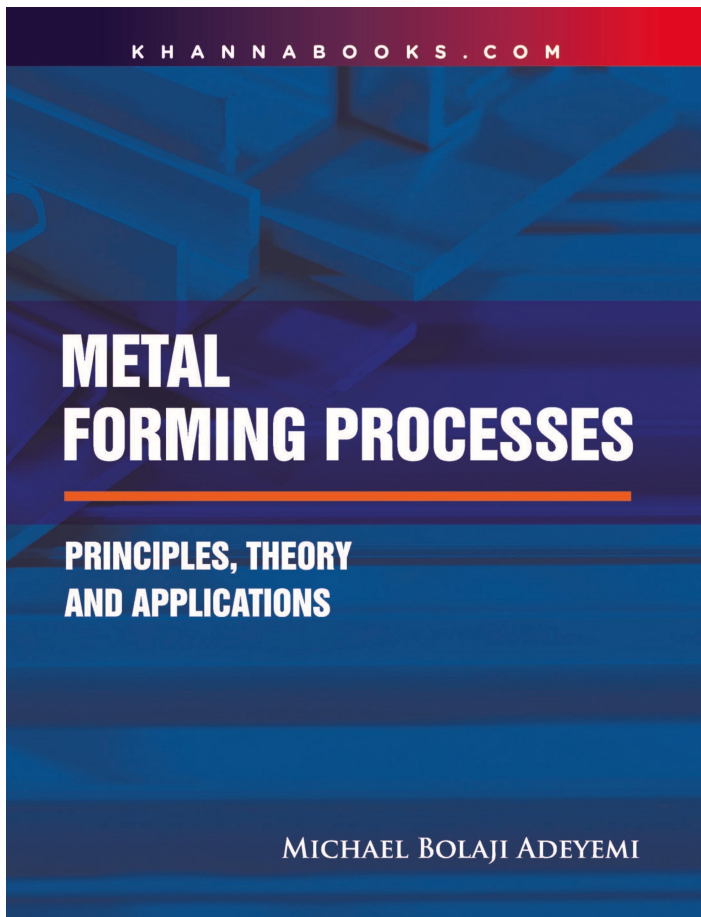
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**Ikvinderpal Singh**, is Lecturer of P.G. Deptt. Of Computer Science & Applications, Khalsa College, Amritsar which is a premier institute in North India. He obtained his MCA with distinction from Guru Nanak Dev University, Amritsar. He has always been excellence right from his student career. He has written five books. He brought name for himself when he topped the college in B.Sc. His other areas of interest include Fuzzy systems, digital electronics and java programming.

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## Metal Forming Process

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## Product Description

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This book is written to provide the following unique features:

- This book is presented in an easy to understand manner by explaining simply and clearly the basic operating principles involved in some of the metal forming processes.
- It is written primarily for use by both undergraduate and post graduate students. Relevant references with old and current literatures are cited so as to assists the students to read deeper to most topics.
- It contains many recent developments and new topics of research in metal forming processes.
- It is an excellent reference book with theoretical formulations and operating principles for various technological developments in metal forming Processes that can be useful to practicing engineers.
- Numerous illustrative examples have been included throughout the book with selected problems for the students to solves.

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## Table of Contents

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**Chapter 1:** Mechanical Properties and Testing Methods of Metals. **Chapter 2:** Fundamental of Metal Working: Classifications and Mechanics. **Chapter 3:** Metal Forming Equipment. **Chapter 4:** Extrusion Processes. **Chapter 5:** Drawing Processes. **Chapter 6:** Forging and Related Processes. **Chapter 7:** Rolling Processes. **Chapter 8:** Sheet Metal Forming Processes. **Chapter 9:** Non-Conventional and Newer Forming Processes. **Chapter 10:** Non-Conventional and Newer Forming Processes.

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## Author

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**Michael Bolaji Adeyemi**

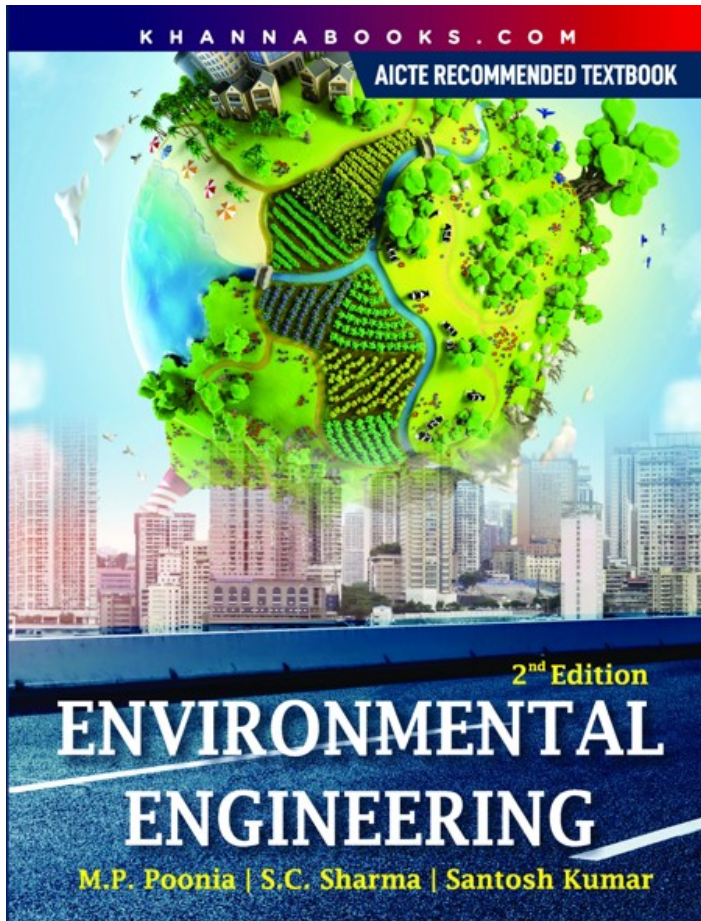
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## Environmental Engineering

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### Product Description

This book covers the syllabi of "Environmental Engineering" and "Public Health Engineering" of various Indian Universities. The book is recommended in AICTE model curriculum. The book has been divided in 3 parts; namely; Water Supply Engineering; Sewage Engineering Air Pollution Engineering. The book is useful for Degree as well as Diploma students and is also likely to be useful for practising engineers in this field.



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**Chapter 1:** Introduction to Environmental Engineering.

**PART -1. WATER SUPPLY ENGINEERING**

**Chapter 2:** Water Demands. **Chapter 3:** Source of Water. **Chapter 4:** Water Quality And Characteristics. **Chapter 5:** Transmission of Water. **Chapter 6:** Pumps And Pumping Stations. **Chapter 7:** Purification of Water Supply. **Chapter 8:** Water Distribution System. **Chapter 9:** Plumbing Systems In Buildings. **Chapter 10:** Rural Water Supply. **PART-2. SEWAGE DISPOSAL AND SOLID WASTE MANAGEMENT** **Chapter 11:** Waste Water (Sanitation) System. **Chapter 12:** Sewage Construction, Maintenance And Appurtenances. **Chapter 13:** Sewage Pumping And Pumping Stations. **Chapter 14:** Sewage Collection From Residential And Other Buildings. **Chapter 15:** Disposal of Sewage Effluents. **Chapter 16:** Treatment of Sewage (Domestic Wastewaters). **Chapter 17:** Treatment of Industrial Wastewater. **Chapter 18:** Solid Waste And Its Management. **PART-3. AIR POLLUTION ENGINEERING AND NOISE POLLUTION** **Chapter 19:** Air Pollution, Causes And Effects. **Chapter 20:** Air Pollution Control. **Chapter 21:** Noise Pollution And Control. **PART-4. ENVIRONMENT IMPACT ASSESSMENT AND SOME IMPORTANTS TOPOICS** **Chapter 22:** Environment Impact Assessment (EIA). **Chapter 23:** Some Important Topics. **Chapter 24:** Appendix-I: Question Bank **Index**



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## Authors

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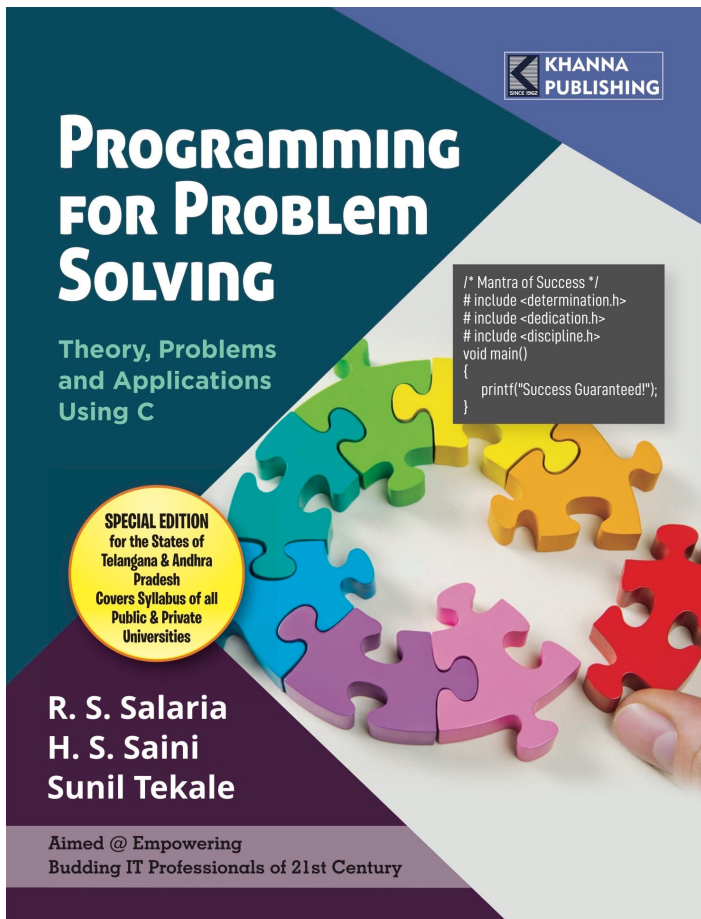
**M.P. Poonia** Dr. M.P. Poonia is presently serving as Vice Chairman, All India Council for Technical Education (AICTE). Prior to this, he remained as Director, National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh. Dr. Poonia is the recipient of Bharat Mata Award conferred by Indian Institute of Oriental Heritage (an International Institute of Oriental Studies and Research, Kolkata). Dr. M.P.Poonia is specialized in the field of Mechanical Engineering. He possesses a vast experience of 30 years. He has published 80 research papers in National and International Journals and published 8 books with M/s. Khanna Book Publishing Company.

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**Santosh Kumar** Prof. Santosh Kumar, Former Professor of Civil Engineering at the Bihar College of Engineering/NIT Patna, obtained his Bachelor's degree in Civil Engineering from Regional Institute of technology/NIT Jamshedpur and Master's degree from University of Roorkee/NIT Roorkee. Further he obtained Dip. H.E. From Delft University, Netherlands. He completed his Ph. D from Patna University. Prof. Kumar taught water resources related subjects for more than 40 years. During his tenure he successfully guided four Ph.Ds. and a record 28 M. Tech dissertations. He also produced more than 50 research papers. Later he also acquired advanced knowledge in Environmental Science. Dr. Kumar was picked up by the World Bank as a consultant to its projects in Bihar at FMISC, where he served for four years. He is a Fellow of Institution of engineers India; Chairman Indian Water Resources Society (Patna Chapter).

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## Programming for Problem Solving

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## Product Description

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This book is specially conceived with an aim to serve not only as a textbook to cover the syllabus of public & public universities, rather a intelligent book (i-book) that empowers readers to acquire 21st century problem solving skills and sharp coding skills. Therefore, keeping in mind the requirements of 21st Century, a special emphasis is laid on the following aspects: Designed keeping in mind the objectives of OUTCOME BASED EDUCATION. Simple and lucid language that language that enables even an average reader to grasp the fundamental concepts of the subject. Illustrative examples (165+ in number) to demonstrate the application of the concepts. Multiple Choice questions (225+ in number) to provide an opportunity for self-assessment of the fundamental concepts learned. Short-answer type questions (192+ in number) to provide an opportunity to synthesize the fundamental concepts learned to answer precisely. Programming exercises (112+ in number) to provide an opportunity to harness their coding skills. Coding problems (42+ in number) from the IT/IT-enabled industry perspective to conquer the screening phase of the placement process. Frequently asked questions (43 in number) to conquer the technical round of the CAMPUS PLACEMENT PROCESS with flying colors. The whole content is designed and organized as per the BLOOM'S TAXONOMY.

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**Coding/Programming Problems for Campus Placements** **Chapter 1:** Introduction to Computers. **Chapter 2:** Program Solving and Program. **Chapter 3:** Overview of C Language. **Chapter 4:** Data Types, Variables and Constants. **Chapter 5:** Operator and Expressions. **Chapter 6:** Console Input/Output. **Chapter 7:** Decision Making and Branching. **Chapter 8:** Decision Making and Looping. **Chapter 9:** User-Defined Functions. **Chapter 10:** Arrays and Strings. **Chapter 11:** User-Defined Data Types: Structure, Union & Enumeration. **Chapter 12:** Pointers & Dynamic Memory Management. **Chapter 13:** File Handling. **Chapter 14:** Preprocessor Directives. **Chapter 15:** Introduction to Algorithms. **Appendix A:** Answers of MCQs. **Appendix B :** FAQs for Oral Examination. **Appendix C:** Solution of Selected Programming Exercises.



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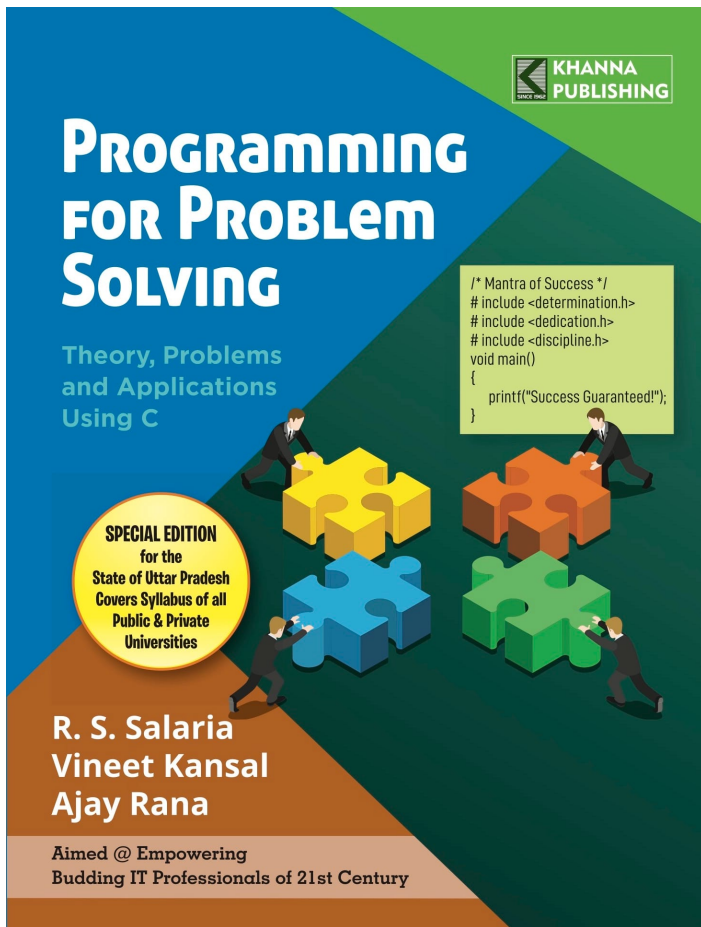
## Authors

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**Prof. R.S. Salaria** is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living. **Prof. H.S. Saini** Professor, Computer Science & Engineering Managing Director, Guru Nanak Group of Institutes, Hyderabad Taught at University of Westminster and Oxford Brookes University, UK Founder and Chief Editor of Journal of Innovation in CS/ECE/IT Recipient of Eminent Academia Award from Indus Foundation Mentored half a dozen startups in the state of Telangana Key member on the panel of NBA & NAAC expert committees Expert in the field of Fuzzy Systems, AI, Knowledge Based Systems and Web Technologies. Established Industry-Academia Collaborations, Foreign University Collaborations and Centers of Excellence in Cutting Edge Technologies. **Sunil Tekale**

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## Authors

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**Prof. R.S. Salaria** is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living.

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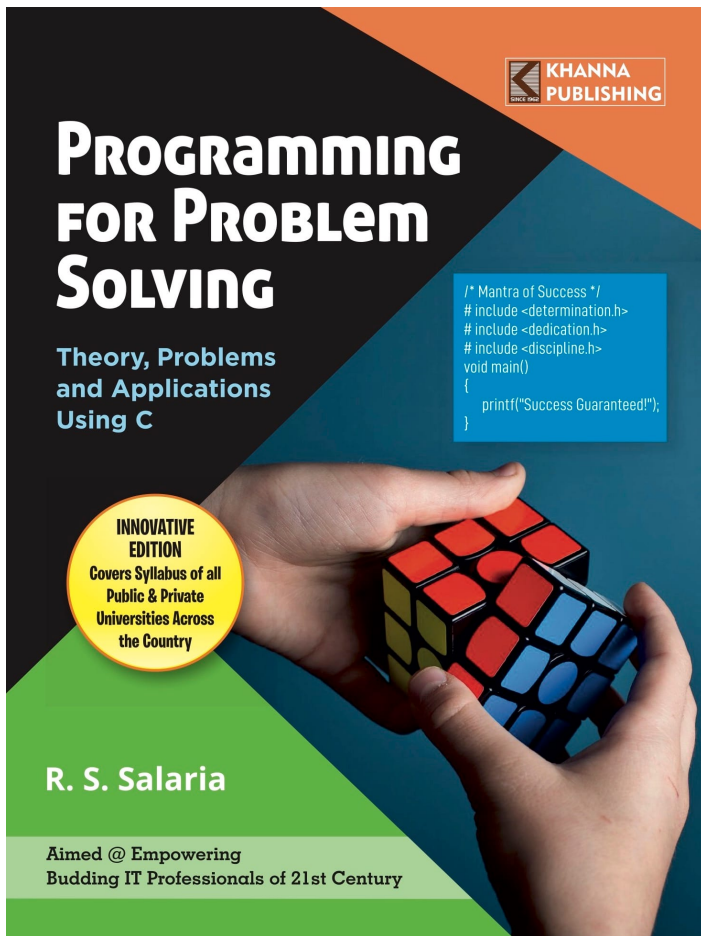
1. 30+ patents under his name in the field of IoT, Network & Sensors 2. 279+ Research publications 3. Co-authored 6 Books 4. Completed 30 Sponsored Research Projects 5. Senior member, Academic Council & Executive Council, Amity University 6. Strong corporate connect.

### **Prof. Vineet Kansal**

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## Programming for Problem Solving

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**R.S. Salaria Prof. R.S. Salaria** is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living.

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