Let r1, r2, and r3 be three regular expressions. Show that the language associated with (r1+r2)r3 is the same as the language associated with r1r3 + r2r3. Show that r1(r2 + r3) is equivalent to r1r2 + r1r3. This will be the same as proving a "distributive law" for regular expressions.

Step-by-step solution

Step 1 of 2

The r_1, r_2, r_3 are three regular expressions and L_1, L_2, L_3 are three languages.

If regular expression r_1 generates the language L_1, regular expression r_2 generates the language L_2, and regular expression r_3 generates the language L_3, then the $(r_1 + r_2)r_3$ generates to the $(L_1 + L_2)L_3$ languages and $(r_1 r_3 + r_2 r_3)$ generates to the $(L_1 + L_2)L_3$ languages.

$(r_1 + r_2)r_3$ and $(r_1 r_3 + r_2 r_3)$ generates the same language then

$$(r_1 + r_2)r_3 = (r_1 r_3 + r_2 r_3)$$

Comment

Step 2 of 2

Similarly $r_1(r_2 + r_3)$ generates the $L_1(L_2 + L_3)$ languages and $(r_1 r_2 + r_1 r_3)$ generates the $L_1(L_2 + L_3)$ so

$$r_1(r_2 + r_3) = (r_1 r_2 + r_1 r_3)$$

Comment

Solution Of Automata Daniel Cohen

Caroline Desgranges,Jerome Delhommelle

Solution Of Automata Daniel Cohen:

Automata, Languages and Programming ,1983 *Soft Computing Methods for Practical Environment Solutions: Techniques and Studies* Gestal Pose, Marcos,Rivero Cebrián, Daniel,2010-05-31 This publication presents a series of practical applications of different Soft Computing techniques to real world problems showing the enormous potential of these techniques in solving problems Provided by publisher **Mathematical Reviews** ,2005 **Introduction to Computer Theory** Daniel I. A. Cohen,1996-10-25 This text strikes a good balance between rigor and an intuitive approach to computer theory Covers all the topics needed by computer scientists with a sometimes humorous approach that reviewers found refreshing The goal of the book is to provide a firm understanding of the principles and the big picture of where computer theory fits into the field The Handbook of Multimodal-Multisensor Interfaces, Volume 3 Sharon Oviatt,Björn Schuller,Philip Cohen,Daniel Sonntag,Gerasimos Potamianos,Antonio Krüger,2019-06-25 The Handbook of Multimodal Multisensor Interfaces provides the first authoritative resource on what has become the dominant paradigm for new computer interfaces user input involving new media speech multi touch hand and body gestures facial expressions writing embedded in multimodal multisensor interfaces This three volume handbook is written by international experts and pioneers in the field It provides a textbook reference and technology roadmap for professionals working in this and related areas This third volume focuses on state of the art multimodal language and dialogue processing including semantic integration of modalities The development of increasingly expressive embodied agents and robots has become an active test bed for coordinating multimodal dialogue input and output including processing of language and nonverbal communication In addition major application areas are featured for commercializing multimodal multisensor systems including automotive robotic manufacturing machine translation banking communications and others These systems rely heavily on software tools data resources and international standards to facilitate their development For insights into the future emerging multimodal multisensor technology trends are highlighted in medicine robotics interaction with smart spaces and similar areas Finally this volume discusses the societal impact of more widespread adoption of these systems such as privacy risks and how to mitigate them The handbook chapters provide a number of walk through examples of system design and processing information on practical resources for developing and evaluating new systems and terminology and tutorial support for mastering this emerging field In the final section of this volume experts exchange views on a timely and controversial challenge topic and how they believe multimodal multisensor interfaces need to be equipped to most effectively advance human performance during the next decade **Grants and Awards** National Science Foundation (U.S.),

Graph-Theoretic Concepts in Computer Science Hajo Broersma,Thomas Erlebach,Tom Friedetzky,Daniel Paulusma,2008-12-05 The 34th International Workshop on Graph Theoretic Concepts in Computer Science WG 2008 took place in Van Mildert College at Durham University UK 30 June 2 July 2008 The approximately 80 participants came from va

ous countries all over the world among them Australia Brazil Canada Chile Czech Republic France Greece Hungary Israel Italy Japan The Netherlands Norway Poland Spain Switzerland UK and the USA WG 2008 continued the series of 33 previous WG conferences Since 1975 the WG conference has taken place 21 times in Germany four times in The Netherlands twice in Austria as well as once in Italy Slovakia Switzerland the Czech Republic France Norway and now in the UK The WG conference traditionally aims at uniting theory and practice by demonstrating how graph theoretic concepts can be applied to various areas in computer science or by extracting new problems from applications The goal is to present recent researchresults and to identify and exploredirections of future research The continuing interest in the WG conferences was re ected in the number and quality of submissions 76 papers were submitted and in an evaluation p cess with four reports per submission 30 papers were accepted by the Program Committee for the conference Due to the high number of submissions and the limited schedule of 3 days various good papers could not be accepted Therewereexcellent invited talks by Giuseppe Di Battista Universit Roma Tre Italy onalgorithmicaspectsof un stableroutingintheInternet byLeszek G sieniec University of Liverpool UK on memory e cient graph exploration andbyMartinGrohe Humboldt Universit tzuBerlin Germany onalgorithmic meta theorems *NBS Special Publication* ,1968 <u>New Technical Books</u> New York Public Library,1986 **The American Mathematical Monthly** ,1980 **Understanding Nonlinear Dynamics** Daniel Kaplan,Leon Glass,2012-12-06 Mathematics is playing an ever more important role in the physical and biological sciences provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics This renewal of interest both in research and teaching has led to the establishment of the series Texts in Applied Mathematics TAM The development of new courses is a natural consequence of a high level of excitement on the research frontier as newer techniques such as numerical and symbolic computer systems dynamical systems and chaos mix with and reinforce the traditional methods of applied mathematics Thus the purpose of this textbook series is to meet the current and future needs of these advances and encourage the teaching of new courses TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses and will complement the Applied Mathematical Sciences AMS series which will focus on advanced textbooks and research level monographs About the Authors Daniel Kaplan specializes in the analysis of data using techniques motivated by nonlinear dynamics His primary interest is in the interpretation of irregular physiological rhythms but the methods he has developed have been used in geo physics economics marine ecology and other fields He joined McGill in 1991 after receiving his Ph D from Harvard University and working at MIT His un dergraduate studies were completed at Swarthmore College He has worked with several instrumentation companies to develop novel types of medical monitors **ACM SIGACT-SIGOPS Symposium on Principles of Distributed Computing, August 18-20, 1982, Ottawa, Canada** ACM Special Interest Group for Automata and Computability Theory,ACM Special Interest Group in Operating Systems,Association for Computing Machinery,1982

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