

Student: _____ Class: _____ Date: _____

Networks and Graphs: Spanning Trees

VII.B Student Activity Sheet 7: Minimal Spanning Trees

A railroad system connecting five cities is being planned. The goal is to build this system using the least amount of money, while ensuring that each city can be reached by any other city in the system. Based on the distance and terrain, the following chart gives estimates for the cost, in hundreds of thousands of dollars, to build a railroad between any two cities.

	City A	City B	City C	City D	City E
City A		10	5	4	2
City B			7	9	11
City C				5	10
City D					12

1. Create a graph to model the costs contained in the table.
2. Restate the railroad problem using the terminology associated with graphs (for example, *vertices*, *edges*, *paths*, *cycles*).
3. Construct two different graphs that represent possible railroad networks, and calculate the total cost to build each rail system.
4. What rail system leads to the lowest construction cost?
5. How did you arrive at the most efficient rail system? State your answer in a step-by-step algorithm that someone else could follow.

Networks And Graphs Spanning Trees Answers

Nirmal K. Bose, Ping Liang



Networks And Graphs Spanning Trees Answers:

Graph Theory Bela Bollobas, 2012-12-06 From the reviews B la Bollob s introductory course on graph theory deserves to be considered as a watershed in the development of this theory as a serious academic subject The book has chapters on electrical networks flows connectivity and matchings extremal problems colouring Ramsey theory random graphs and graphs and groups Each chapter starts at a measured and gentle pace Classical results are proved and new insight is provided with the examples at the end of each chapter fully supplementing the text Even so this allows an introduction not only to some of the deeper results but more vitally provides outlines of and firm insights into their proofs Thus in an elementary text book we gain an overall understanding of well known standard results and yet at the same time constant hints of and guidelines into the higher levels of the subject It is this aspect of the book which should guarantee it a permanent place in the literature
Bulletin of the London Mathematical Society 1 *Networks and Algorithms* Alan Dolan, Joan Aldous, Joan M. Aldous, 1993
Based on The Open University course Graphs networks and design Matroids: A Geometric Introduction Gary Gordon, Jennifer McNulty, 2012-08-02 This friendly introduction helps undergraduate students understand and appreciate matroid theory and its connections to geometry **Topics in Contemporary Probability and Its Applications** J. Laurie Snell, 1995-04-18 Probability theory has grown from a modest study of simple games of chance to a subject with application in almost every branch of knowledge and science In this exciting book a number of distinguished probabilists discuss their current work and applications in an easily understood manner Chapters show that new directions in probability have been suggested by the application of probability to other fields and other disciplines of mathematics The study of polymer chains in chemistry led to the study of self avoiding random walks the study of the Ising model in physics and models for epidemics in biology led to the study of the probability theory of interacting particle systems The stochastic calculus has allowed probabilists to solve problems in classical analysis in theory of investment and in engineering The mathematical formulation of game theory has led to new insights into decisions under uncertainty These new developments in probability are vividly illustrated throughout the book *Finite Graphs and Networks* Robert G. Busacker, Thomas L. Saaty, 1965 Elementary Data Structures with Pascal Angela B. Shiflet, 1990 **Automation and Instrumentation for Power Plants** M. Ramamoorthy, 2016-01-22 An analysis of power systems control hardware modelling and simulation instrumentation and computers and distributed systems The stability of plants and their interaction in a multi machine system is also discussed as well as an analysis of the values of LOFT ATWS EVENT for PWR and the new algorithm of on line ELD for thermal power plants *Intelligent Techniques for Warehousing and Mining Sensor Network Data* Cuzzocrea, Alfredo, 2009-12-31 This book focuses on the relevant research theme of warehousing and mining sensor network data specifically for the database data warehousing and data mining research communities Provided by publisher The Teaching and Learning of Algorithms in School Mathematics Lorna J. Morrow, Margaret J. Kenney, 1998 This 1998 yearbook aims to stimulate and

answer questions that all educators of mathematics need to consider to adapt school mathematics for the 21st century The papers included in this book cover a wide variety of topics including student invented algorithms the assessment of such algorithms algorithms from history and other cultures ways that algorithms grow and change and the importance of algorithms in a technological world Chapters include 1 Whither Algorithms Mathematics Educators Express Their Views Lorna J Morrow 2 Paper and Pencil Algorithms in a Calculator and Computer Age Zalman Usiskin 3 What Is an Algorithm What Is an Answer Stephen B Maurer 4 Algorithmic and Recursive Thinking Current Beliefs and Their Implications for the Future Tabitha T Y Mingus and Richard M Grassl 5 Teaching Mental Algorithms Constructively Alistair McIntosh 6 What Criteria for Student Invented Algorithms Patricia F Campbell Thomas E Rowan and Anna R Suarez 7 The Importance of Algorithms in Performance Based Assessments Dominic Peressini and Eric Knuth 8 A Brief History of Algorithms in Mathematics Janet Heine Barnett 9 Understanding Algorithms from Their History Barnabas Hughes 10 An Exploration of the Russian Peasant Method of Multiplication Laura Sgroi 11 Hammurabi s Calculator Clifford Wagner 12 Capsule Lessons in Alternative Algorithms for the Classroom Diane E Mason 13 Historical Algorithms Sources for Student Projects Rheta N Rubenstein 14 Alternative Algorithms for Whole Number Operations William M Carroll and Denise Porter 15 My Family Taught Me This Way Pilar Ron 16 Calculators in Primary Mathematics Exploring Number Before Teaching Algorithms Susie Groves and Kaye Stacey 17 The Harmful Effects of Algorithms in Grades 1 4 Constance Kamii and Ann Dominick 18 A Contextual Investigation of Three Digit Addition and Subtraction Kay McClain Paul Cobb and Janet Bowers 19 Children s Invented Algorithms for Multidigit Multiplication Problems Jae Meen Baek 20 The Write Way To Mathematical Understanding David J Whitin and Phyllis E Whitin 21 Letting Fraction Algorithms Emerge through Problem Solving DeAnn Huinker 22 Developing Algorithms for Adding and Subtracting Fractions Glenda Lappan and Mary K Bouck 23 A Constructed Algorithm for the Division of Fractions Janet Sharp 24 Dividing Fractions by Using the Ratio Table Jonathan L Brendefur and Ruth C Pitingoro 25 Teaching Statistics What s Average Susan N Friel 26 Algorithms for Solving Nonroutine Mathematical Problems Jinfa Cai and Connie Laughlin 27 Algebra and Technology Ann Bruner Kathy Coskey and Sharon K Sheehan 28 A New Look at an Old Algorithm The Semiaverage Line Michael McNamara 29 Random Number Generators A Mysterious Use of Algorithms Stephanie O Robinson and Donald J Dessart 30 Algorithmic Problem Solving in Discrete Mathematics Eric W Hart 31 The Traveling Salesperson Some Algorithms Are Different Lowell Leake and 32 Using Algorithms To Generate Objects of Mathematical Interest Elaine Simmt

ASK Web-Age Information Management Hong Gao, Lipyeow Lim, Wei Wang, Chuan Li, Lei Chen, 2012-08-13 This book constitutes the refereed proceedings of the 13th International Conference on Web Age Information Management WAIM 2012 held in Harbin China in August 2012 The 32 revised full papers presented together with 10 short papers and three keynotes were carefully reviewed and selected from a total of 178 submissions The papers are organized in topical sections on wireless sensor networks data warehousing and data mining query processing

spatial databases similarity search and queries XML and Web data graph and uncertain data distributed computing data security and management information extraction and integration and social networks and modern Web services **Neural Network Fundamentals with Graphs, Algorithms, and Applications** Nirmal K. Bose, Ping Liang, 1996 Streaming Media with Peer-to-Peer Networks: Wireless Perspectives Fleury, Martin, 2012-05-31 The number of users who rely on the Internet to deliver multimedia content has grown significantly in recent years As this consumer demand grows so too does our dependency on a wireless and streaming infrastructure which delivers videos podcasts and other multimedia Streaming Media with Peer to Peer Networks Wireless Perspectives offers insights into current and future communication technologies for a converged Internet that promises soon to be dominated by multimedia applications at least in terms of bandwidth consumption The book will be of interest to industry managers and will also serve as a valuable resource to students and researchers looking to grasp the dynamic issues surrounding video streaming and wireless network development

Student Resource Guide Dale R. Buske, Peter Tannenbaum, 2006-08 Student Resource Guide contains full worked out solutions to odd numbered exercises from the text selected hints that point the reader in one of many directions leading to a solution and keys to student success including lists of skills that will help prepare for chapter exams **Atlas of Knowledge** Katy Borner, 2015-03-20 The power of mapping principles for visualizing knowledge illustrated by many stunning large scale full color maps Maps of physical spaces locate us in the world and help us navigate unfamiliar routes Maps of topical spaces help us visualize the extent and structure of our collective knowledge they reveal bursts of activity pathways of ideas and borders that beg to be crossed This book from the author of Atlas of Science describes the power of topical maps providing readers with principles for visualizing knowledge and offering as examples forty large scale and more than 100 small scale full color maps Today data literacy is becoming as important as language literacy Well designed visualizations can rescue us from a sea of data helping us to make sense of information connect ideas and make better decisions in real time In Atlas of Knowledge leading visualization expert Katy B rner makes the case for a systems science approach to science and technology studies and explains different types and levels of analysis Drawing on fifteen years of teaching and tool development she introduces a theoretical framework meant to guide readers through user and task analysis data preparation analysis and visualization visualization deployment and the interpretation of science maps To exemplify the framework the Atlas features striking and enlightening new maps from the popular Places Spaces Mapping Science exhibit that range from Key Events in the Development of the Video Tape Recorder to Mobile Landscapes Location Data from Cell Phones for Urban Analysis to Literary Empires Mapping Temporal and Spatial Settings of Victorian Poetry to Seeing Standards A Visualization of the Metadata Universe She also discusses the possible effect of science maps on the practice of science **Cooperative and Graph Signal Processing** Petar Djuric, Cédric Richard, 2018-07-04 Cooperative and Graph Signal Processing Principles and Applications presents the fundamentals of signal processing over networks and the latest advances in graph signal

processing A range of key concepts are clearly explained including learning adaptation optimization control inference and machine learning Building on the principles of these areas the book then shows how they are relevant to understanding distributed communication networking and sensing and social networks Finally the book shows how the principles are applied to a range of applications such as Big data Media and video Smart grids Internet of Things Wireless health and Neuroscience With this book readers will learn the basics of adaptation and learning in networks the essentials of detection estimation and filtering Bayesian inference in networks optimization and control machine learning signal processing on graphs signal processing for distributed communication social networks from the perspective of flow of information and how to apply signal processing methods in distributed settings Presents the first book on cooperative signal processing and graph signal processing Provides a range of applications and application areas that are thoroughly covered Includes an editor in chief and associate editor from the IEEE Transactions on Signal Processing and Information Processing over Networks who have recruited top contributors for the book

Mathematical Reviews ,2006 *Cisco Networking Simplified* Paul L. Della Maggiora,Jim Doherty,2003 A visual explanation of networking technologies What you always wanted to know about networking but were afraid to ask How the Internet works How e mail e learning and telephony work on the Internet What makes a network safe How traffic gets from here to there Disaster recovery and other ways to keep a network running How businesses share data See the world of Cisco networking with this illustrated guide s visual approach to learning Useful for both novices and networking professionals Covers a broad variety of internetworking topics from e mail to VPNs At last an illustrated guide to the world of Cisco networking Cisco Networking Simplified breaks down the complicated world of internetworking into easy to understand parts Learn quickly and easily the fundamentals of a variety of topics such as security IP telephony and quality of service from the full color diagrams and clear explanations found in Cisco Networking Simplified This book is part of the Networking Technology Series from Cisco Press the only authorized publisher for Cisco Systems

Reviews in Graph Theory William G. Brown,1980 Algorithms in C: pt. 5. Graph algorithms Robert Sedgewick,1998 Robert Sedgewick has thoroughly rewritten and substantially expanded his popular work to provide current and comprehensive coverage of important algorithms and data structures Many new algorithms are presented and the explanations of each algorithm are much more detailed than in previous editions A new text design and detailed innovative figures with accompanying commentary greatly enhance the presentation The third edition retains the successful blend of theory and practice that has made Sedgewick s work an invaluable resource for more than 250 000 programmers Whether you are a student learning the algorithms for the first time or a professional interested in having up to date reference material you will find a wealth of useful information in this book

Data Structures in C++ Including Breadth and Laboratories Angela B. Shiflet,1995-09 Data Structures in C Including Breadth and Laboratories integrates laboratory exercises problem solving skills and breadth sections covering non programming aspects of computer science into the study

of data structures An appendix on non object oriented features of C helps students from a C background get up to speed and Chapter 4 presents the aspects of OOP in C that students need in studying data structures Other aids to learning include Programming Projects over 1 000 exercises and numerous figures Laboratory programs and data files data structure implementations and program examples from the text are available via the World Wide Web

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