

The Problem

One of our original goals in developing the Maximum-Flow Problem was to be able to solve the Bipartite Matching Problem, and we now show how to do this. Recall that a *bipartite graph* $G = (V, E)$ is an undirected graph whose node set can be partitioned as $V = X \cup Y$, with the property that every edge $e \in E$ has one end in X and the other end in Y . A *matching* M in G is a subset of the edges $M \subseteq E$ such that each node appears in at most one edge in M . The Bipartite Matching Problem is that of finding a matching in G of largest possible size.

Designing the Algorithm

The graph defining a matching problem is undirected, while flow networks are directed; but it is actually not difficult to use an algorithm for the Maximum-Flow Problem to find a maximum matching.

Beginning with the graph G in an instance of the Bipartite Matching Problem, we construct a flow network G' as shown in Figure 7.9. First we direct all edges in G from X to Y . We then add a node s , and an edge (s, x) from s to each node in X . We add a node t , and an edge (y, t) from each node in Y to t . Finally, we give each edge in G' a capacity of 1.

We now compute a maximum s - t flow in this network G' . We will discover that the value of this maximum is equal to the size of the maximum matching in G . Moreover, our analysis will show how one can use the flow itself to recover the matching.

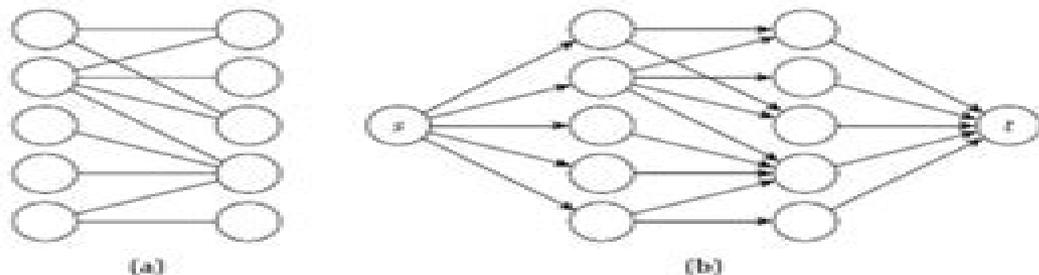


Figure 7.9 (a) A bipartite graph. (b) The corresponding flow network, with all capacities equal to 1.

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Introduction to Optimization with Matlab® Examples Jose Maria Giron-Sierra,2026-01-01 The textbook provides a comprehensive yet practical look at optimization theory and applications with examples and MATLAB programs The author introduces concepts and methods with mathematical formulations followed by clear examples The programs provided in MATLAB inserted in text being also downloadable are useful for practicing the methods on the given examples and for visualization of results Topics covered include Linear Programming or Calculus of Variations Quadratic Programming Integer Programming etc After presenting basics the book goes on to introduce further methodological steps like Interior Point methods Evolutionary approaches Multi objective Optimization and Decision making including Portfolio management Games and the application to sparse representations also related to Machine Learning and image processing The reader can easily take initiative exploring other examples or cases of own interest by using modifying the programs The book is addressed to upper undergraduate and graduate students of engineering mathematics and other sciences computer studies economics and management

Structural Information and Communication Complexity Guy Even,Magnús M. Halldórsson,2012-06-25 This book constitutes the refereed proceedings of the 19th International Colloquium on Structural Information and Communication Complexity SIROCCO 2012 held in Reykjavik Iceland for 3 days starting June 30 2012 The 28 revised full papers presented were carefully reviewed and selected from 54 submissions SIROCCO is devoted to the study of communication and knowledge in distributed systems Special emphasis is given to innovative approaches and fundamental understanding in addition to efforts to optimize current designs The typical areas include distributed computing communication networks game theory parallel computing social networks mobile computing including autonomous robots peer to peer systems communication complexity fault tolerant graph theories and randomized probabilistic issues in networks

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web hemoglobin a rare recessive trait genetic disorder in which the body doesn t make the enzyme diaphorase methemoglobin is a bluish purplish tint gives oxygen depleted blood a purple hue has slightly different ion of iron has one less electron doesn t effectively bond with oxygen

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web view the blue people of troublesome creek biology roots pdf from biology misc at pontotoc high school name date the blue people of troublesome creek in 1820 a french orphan named martin fugate

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web indicate each person accurately note unaffected means normal skin color while affected means the person was blue the carrier symbols mean the person carried a blue allele but didn t show signs of it on your pedigree chart you must have the following clearly labeled names when provided symbols associated with male or female

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web dec 22 2020 fugate pedigree the image above shows the pedigree of the blue people family tree indicating the phenotypes of all the individuals in the family circles are females and squares are males if the shape is shaded then that individual has the disorder

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web the blue people of troublesome creek a fellow by the name of john e stacy spotted luna at sunday services of the old regular baptist church back before the century turned stacy courted her married her and moved over from troublesome

creek to make a living in timber on her daddy s land

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web the blue people of troublesome creek the story of an appalachian malady an inquisitive doctor and a paradoxical cure by cathy trost copy science 82 november 1982 six generations after a french orphan named martin fugate settled on the banks of eastern kentucky s troublesome creek with his redheaded american bride his great

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web solutions available stratford university sci 110 the blue people of troublesome creek answer sheet in 1820 a french orphan named martin fugate settled on the banks of eastern kentucky near troublesome creek he married his american redheaded sweetheart elizabeth smith

the blue people of troublesome creek - Jan 08 2023

web dec 22 2020 there was always speculation in the hollows about what made the blue people blue heart disease a lung disorder the possibility proposed by one old timer that their blood is just a little closer to their skin

blue people activity docx blue people of troublesome creek pedigrees - Apr 30 2022

web blue people of troublesome creek pedigrees name the family are from a small town called troublesome creek kentucky and are known for having blue pigmented skin this skin discoloration is due to a rare autosomal genetic disorder called [pedigree practice the blue people pedigree activity ppt](#) - Nov 06 2022

web a 5 5 page activity titled the blue people of troublesome creek focuses on the blue fugates of kentucky this family suffered from a rare genetic disorder known as methemoglobinemia this is really fascinating and my students love hearing about this

pedigree of the fugates of troublesome creek - Dec 07 2022

web deficiency of nadh diaphorase he went out into the hills and found other blue people including zach fugate and his aunt bessie fugate all living near a nearly dead mining town known as hardburly the doctor had noticed that the blue people were not particularly happy about being blue

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web the blue people of troublesome creek a classroom favorite 5 pages of pedigree fun plus a 12 slide powerpoint all about the methemoglobinemia pedigree quiz 10 questions that include mostly autosomal pedigrees

fugates of kentucky skin bluer than lake louise abc news - Feb 09 2023

web feb 21 2012 the most detailed account blue people of troublesome creek was published in 1982 by the university of indiana s cathy trost who described benjy s skin as almost purple the fugate progeny had a genetic condition called methemoglobinemia which was passed down through a recessive gene and blossomed through intermarriage

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web in a nutshell the blue is caused by a hereditary condition called methemoglobinemia it is a rare and harmless genetic disorder in which the body does not make enough of the enzyme diaphorase or any those with methemoglobinemia still have plenty of hemoglobin so they function normally

blue fugates activity simon technology - Mar 10 2023

web nov 25 2012 martin fugate was an orphan who moved to kentucky in 1820 to find a place to live near troublesome creek family stories say that martin himself was blue the odds were very much against it but martin fugate managed to find and marry a woman who carried the same recessive gene