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Proving Algorithm Correctness In Chapter 1, we specified several problems and presented various algo-rithms for solving these problems For each algorithm, we argued somewhat informally that it met its specification In this chapter, we introduce a mathematical foundation for more rigorous proofs of algorithm correctness
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Proving Algorithm Correctness - People Mathematical induction (MI) is an essential tool for proving the statement that proves an algorithm's correctness The general idea of MI is to prove that a statement is true for every natural number n
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Prove algorithm correctness Mathematical Induction

2/28/16 1 Mathematical Induction Rosen Chapter 5 Why induction? n Prove algorithm correctness n The inductive proof will sometimes point out an algorithmic solution to a problem n Strongly connected to recursion Motivation n A group of people live on an islandThey are all perfect logicians

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2 Proving Algorithm Correctness — introduction to techniques for proving algorithm correctness 3 Analyzing Algorithms — introduction to asymptotic notation and its use in analyzing worst-case performance of algorithms II Data Structures — data structures commonly used with algorithms, including algorithms presented later in this text 4

Network Flow 129 Correctness of the Fordï¿½Fulkerson ...

Network Flow 133 Transshipment 300 100 100 200 150 100 50 A I II III B C IV 300 100 100 200 150 100 50 s A B C I II III IV t Important: Any valid transshipment in G corresponds to a valid flow in G, and vice versa Therefore, finding a maximum transshipment in G corresponds to finding a maximum flow in G, and vice versa If all suppliers are satisfied, the min cut in the network will be

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Proving algorithm correctness then amounts to proving that any log that can be generated using a particular concurrency control algorithm is equivalent to some serial log (ie, one in which all requests from each individual transaction are adjacent in the log) Algorithm correctness work has therefore been guided by the existence of this

Mathematical induction & Recursion

Correctness of the mathematical induction Suppose P(1) is true and P(n) P(n+1) is true for all positive integers n Want to show x P(x) Assume there is at least one n such that P(n) is false Let S be the set of nonnegative integers where P(n) is false Thus S Well-Ordering …

On Automatically Proving the Correctness of math.h ...

On Automatically Proving the Correctness of mathh Implementations 47:3 , We present the properties of loating-point used in these proofs Some of these properties are only well-known to loating-point experts, and others are new in the sense that they have not been stated explicitly in the literature

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When proving the correctness of a decision problem there are two parts Colloquially these are called yes!yesand no!no, although because of contrapositives its acceptable to prove yes!yesand yes yes This means that you have to show that if your algorithm return true on input xthen indeed f(x) = true and if your algorithm returns false then f(x

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