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Solution: We can keep track of the number of adult and newborn pairs in each time step. For any given time step n, fib(n) = adult n + newborn n. We also know that these numbers evolve as follows: adult n adult n 1 + newborn n 1 newborn n adult n 1 This will give the original Fibonacci sequence (I am assuming fib(0) = 0 and fib(1) = 1). b(n) if n 1 then return n

### Introduction to Bioinformatics Algorithms Homework 1 Solution

Introduction to Bioinformatics Algorithms Homework 2 Solution. Saad Mneimneh Computer Science Hunter College of CUNY. Problem 1: Coin Change (a) The greedy algorithm for coin change can be described as: G(n) = 1 + G(n c) where cis the largest coin value less or equal to n. G(n) if n>0 then let cbe largest coin value n return 1 + G(n c) else return 0 Transform this algorithm into a dynamic programming algorithm to compute G(0);G(1);:::;G(n).

### Introduction to Bioinformatics Algorithms Homework 2 Solution

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**An Introduction to Bioinformatics Algorithms The Motif ...**
An Introduction to Bioinformatics Algorithms, MIT Press, Cambridge, Mass. (slides below from www.bioalgorithms.info) Molecular Biology (Ch 3) DNA Mapping (Ch 4) Brute Force Motif Searching (Ch 4) Genome Rearrangements (Ch 5) Alignment (Ch 6) Edit Distance (Ch 6) Similarity-based methods for gene prediction (Ch 6)

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