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S.Dasgupta,C.H.Papadimitriou,andU.V.Vazirani 13 1. Is it correct? 2. How much time does it take, as a function of n? 3. And can we do better? The rst question is moot here, as this algorithm is precisely Fibonacci ' s denition of Fn. But the second demands an answer. Let T(n) be the number of computer steps needed to n,,. And 01

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dist(s) = 0 for each v2Vnfsg, in linearized order: dist(v) = min(u;v)2Efdist(u)+l(u;v)g Notice that this algorithm is solving a collection of subproblems, fdist(u) : u2Vg. We start with the smallest of them, dist(s), since we immediately know its answer to be 0. We

Dynamic programming - People

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ALGORITHMS BY S.DASGUPTA C.H.PAPADIMITRIOU AND U.V ...

S.Dasgupta,C.H.Papadimitriou,andU.V.Vazirani 93 up O(n2) space, which is wasteful if the graph does not have very many edges. An alternative representation, with size proportional to the number of edges, is the adja-cency list. It consists of jVjlinked lists, one per vertex. The linked list for vertex uholds the

Decompositions of graphs

S.Dasgupta,C.H.Papadimitriou,andU.V.Vazirani 145 In addition to a parent pointer ˇ, each node also has arankthat, for the time being, should be interpreted as the height of the subtree hanging from that node. procedure makeset(x) ˇ(x) = x rank(x) = 0 function find(x) while x6= ˇ(x) : x= ˇ(x) return x As can be expected, makesetis a constant-time operation.

Greedy algorithms - People

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