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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  $F_n$ . But the second demands an answer. Let  $T(n)$  be the number of computer steps needed to  $n$ .,. And 01

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problems: NP-completeness, various heuristics, as well as quantum algorithms, perhaps the most advanced and modern topic. As it happens, we end the story exactly where we started it, with Shor's quantum algorithm for factoring. The book includes three additional undercurrents, in the form of three series of separate

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Text: "Algorithms" by S. Dasgupta, C.H. Papadimitriou, and U.V. Vazirani CSC373 is our 3rd year undergraduate course in algorithm design and analysis. This is a standard and required course in most CS programs throughout the world.

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$\text{dist}(s) = 0$  for each  $v \in V$ , in linearized order:  $\text{dist}(v) =$

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$\min(u,v)2E \text{dist}(u)+l(u,v)g$  Notice that this algorithm is solving a collection of subproblems,  $\text{fdist}(u) : u \in V$ . We start with the smallest of them,  $\text{dist}(s)$ , since we immediately know its answer to be 0. We

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S.Dasgupta,C.H.Papadimitriou,andU.V.Vazirani 93 up  $O(n^2)$  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 adjacency list. It consists of  $\sum_v \text{deg}(v)$  linked lists, one per vertex. The linked list for vertex  $u$  holds the

~~Decompositions of graphs~~

S.Dasgupta,C.H.Papadimitriou,andU.V.Vazirani 145 In addition to a parent pointer  $\pi$ , each node also has  $\text{rank}$  that, for the time being, should be interpreted as the

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height of the subtree hanging from that node. procedure makeset(x)  $\checkmark(x) = x$   
rank(x) = 0 function find(x) while  $x \neq \checkmark(x) : x = \checkmark(x)$  return x As can be expected,  
makeset is a constant-time operation.

## Greedy algorithms—People

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