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

~~Dynamic programming - People~~

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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  $|V|$  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  $\checkmark$ , each node also has a rank that, for the time being, should be interpreted as the 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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