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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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Papadimitriou has been awarded the Knuth Prize, IEEE ' s John von Neumann Medal, the EATCS Award, the IEEE Computer Society Charles Babbage Award, and the Gödel Prize. He is a fellow of the Association for Computer Machinery and the National Academy of Engineering, and a member of the National Academy of Sciences.

~~Christos Papadimitriou | Columbia Engineering~~

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Papadimitriou is the author of the textbook Computational Complexity, one of the most widely used textbooks in the field of computational complexity theory. He has also co-authored the textbook Algorithms (2008) with Sanjoy Dasgupta and Umesh Vazirani, and the graphic novel Logicomix (2009) with Apostolos Doxiadis.

~~Christos Papadimitriou—Wikipedia~~

He received his B.S. in EE from Athens Polytechnic, 1972, a M.S. in EE and Ph.D. in EECS from Princeton, 1974 and 1976 respectively. He is the C. Lester Hogan Professor of EECS.

~~Christos Papadimitriou | EECS at UC Berkeley~~

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~~

Umesh Vazirani is the Roger A. Strauch Professor of EECS and the co-director of the Berkeley Quantum Computation Center (BQIC). His research interests lie primarily in quantum computing.

~~Umesh Vazirani | EECS at UC Berkeley~~

S.Dasgupta,C.H.Papadimitriou,andU.V.Vazirani 251 TSP also readily solves the search problem: find the optimum tour and if it is within budget, return it; if not, there is no solution. Conversely, an algorithm for the search problem can also be used to solve the optimization problem.

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