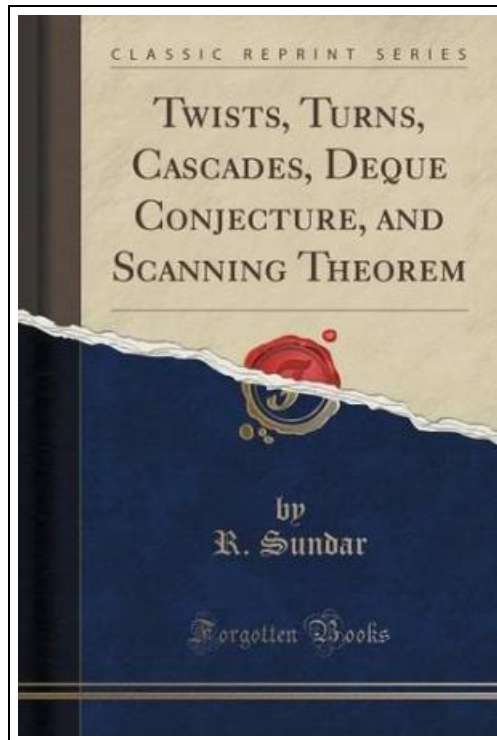


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Forgotten Books, United States, 2015. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Twists, Turns, Cascades, Deque Conjecture, and Scanning Theorem Sleator and Tarjan devised a self-adjusting binary search tree, called the splay tree, that is competitive with many of the balanced search tree schemes for maintaining a dictionary. They conjectured that the splay algorithm is optimal, in an asymptotic sense, among the class of self-adjusting search algorithms that use only rotations to reorganize the tree. Tarjan proved a corollary of this conjecture, called the scanning theorem, which states that splaying requires $O(n)$ time to access the nodes of an arbitrary n -node binary tree in symmetric order. Generalizing the scanning theorem, he conjectured that the cost of performing a sequence of m deque operations on an arbitrary n -node binary tree using splaying is $O(m + n)$. He showed that the conjecture holds when the output operations are restricted to one end of the deque. Lucas proved that the cost of executing any sequence of deque output operations on an initial tree having a certain special shape using splaying is $O(n \cdot \alpha(n))$, where α is an inverse of the Ackerman function. A right 2-turn is a kind of double rotation performed on a binary tree. Sleator conjectured that the number of right 2-turns in any sequence of right 2-turns and right rotations performed on an arbitrary n -node binary tree is $O(n)$. This conjecture is closely related to Tarjan's deque conjecture. In this paper, we prove the following results: 1. Nearly tight lower and upper bounds on the maximum number of each type of rotational operation in intermixed sequences of various rotational operations performed on binary trees. In particular, our lower bound for right 2-turns refutes Sleator's turn conjecture. 2. An $O(m + n)$...



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