Algorithms, Fourth Edition (Deluxe): Book and 24-Part Lecture Series

Robert Sedgewick, Kevin Wayne

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THE LECTURE SERIES: There are 24 lecture videos that will be streamed on the Informit.com site; each lecture is approximately 60 to 75 minutes in length and focuses on a specific topic related to the Algorithms book. The lecture videos introduce viewers to fundamental data types, algorithms, and data structures, with emphasis on applications and scientific performance analysis of Java implementations. They also cover graph-processing algorithms, including minimum spanning tree and shortest paths algorithms, and string processing algorithms, including string sorts, tries, substring search, regular expressions, and data compression, and concludes with an overview placing the contents of the course in a larger context.
The first 12 lecture videos cover elementary data structures, sorting, and searching. Topics covered in these videos include union-find, binary search, stacks, queues, bags, insertion sort, selection sort, shellsort, quicksort, 3-way quicksort, mergesort, heapsort, binary heaps, binary search trees, red-black trees, separate chaining and linear probing hash tables, Graham scan, and id-trees. Lecture videos 13 through 24 focus on graph and string-processing algorithms. Topics covered in these lecture videos include depth-first search, breadth-first search, topological sort, Kosaraju-Sharir, Kruskal, Prim, Dijkistra, Bellman-Ford, Ford-Fulkerson, LSD radix sort, MSD radix sort, 3-way radix quicksort, multiway tries, ternary search tries, Knuth-Morris-Pratt, Boyer-Moore, Rabin-Karp, regular expression matching, run-length coding, Huffman coding, LZW compression, and the Burrows-Wheeler transform.

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