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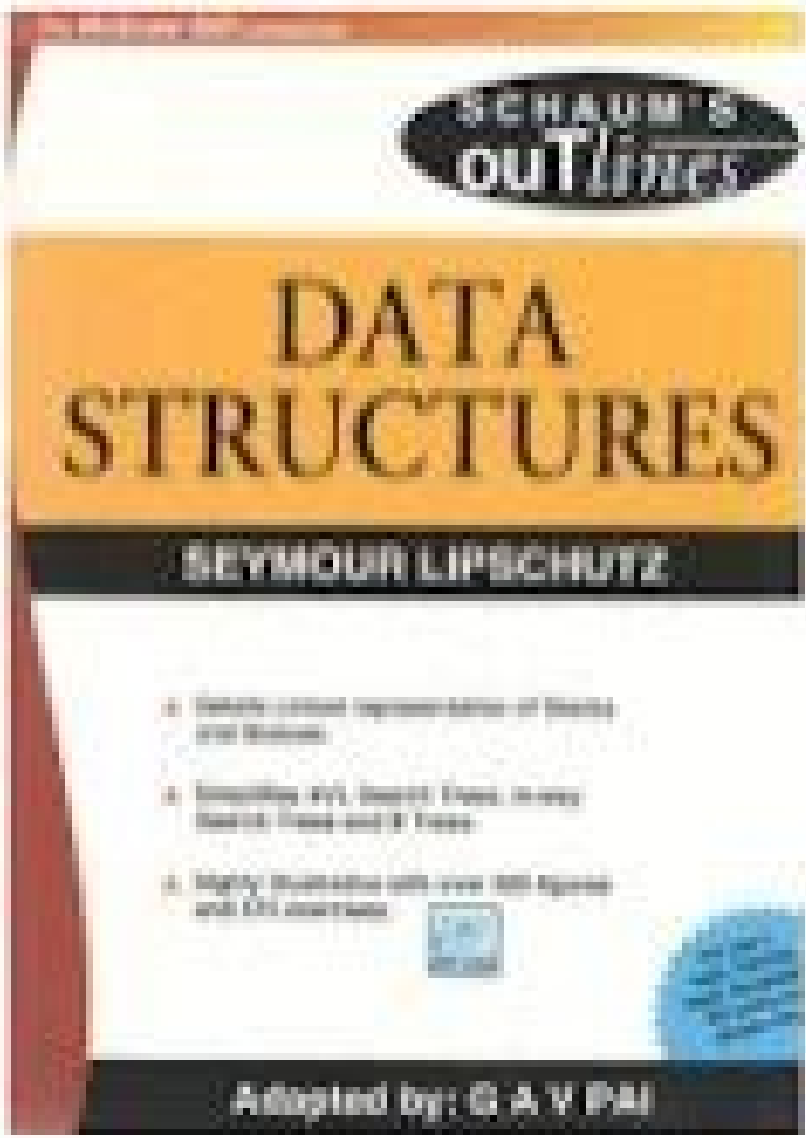
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Progress at your own speedOptional upgrade availableThis is the 3rd course in the intermediate, undergraduate-level offering that makes up the larger Programming and Data Structures MicroBachelors program. We recommend taking them in order, unless you have a background in these areas already and feel comfortable skipping ahead. These topics build upon the learnings that are taught in the introductory-level Computer Science Fundamentals MicroBachelors program, offered by the same instructor. This is a self-paced course that continues in the development of C++ programming skills. Among the topics covered is the development of more advanced command-line programs that utilize Pointers, Dynamic Storage, Recursion, Searching, Sorting to solve problems. Students learn how to use and program these data structures through the lectures and the labs. C++ programming material is presented over eight weeks of interactive lectures with quizzes to assess your understanding of the material Students will experience hands-on practice writing C++ programs through fourteen lab challenges. Students will not only learn to use data structures to organize, manage, and storage in formats that enable efficient access and modification. A data structure is a collection of data values, the relationships among them, and the functions or operations that can be applied to the data. Demonstrate a basic understanding of object-oriented programming by using structures and classes in software projects. Use object-oriented programming techniques to develop executable programs that include elements such as inheritance and polymorphism. Apply basic searching and sorting algorithms in software design. Apply single-and multi-dimensional arrays in software. Demonstrate a basic understanding of programming methodologies, including object oriented, structured, and procedural programming. Design and develop programs that recursion to solve problems that can be expressed with recurrence. Wk 1 - Pointers Dynamic Arrays Pointer Arithmetic Wk 2 - Pointers Labs Wk 3 - Recursions Mathematical Induction Recursion Wk 4 - Recursion Labs Week 5 - Searching Sorted-Search Linear vs. Logarithmic Wk 6 - Searching Labs Wk 7 - Sorting Sorting Algorithms Runtime Analysis Wk 8 - Sorting Labs Week 9 - Object Oriented Programming Encapsulation Accessors and Mutators Constructors Operator Overloading Inheritance Polymorphism Wk 10 - OO Labs Wk 11 - Final Exam Progress at your own speedOptional upgrade availableUnfortunately, learners residing in one or more of the following countries or regions will not be able to register for this course: Iran, Cuba and the Crimea region of Ukraine. While edX has sought licenses from the U.S. Office of Foreign Assets Control (OFAC) to offer our courses to learners in these countries and regions, the licenses we have received are not broad enough to allow us to offer this course in all locations. edX truly regrets that U.S. sanctions prevent us from offering all of our courses to everyone, no matter where they live. Progress at your own speedOptional upgrade availableThis is the 4th course in the intermediate, undergraduate-level offering that makes up the larger Programming and Data Structures MicroBachelors program. We recommend taking them in order, unless you have a background in these areas already and feel comfortable skipping ahead. These topics build upon the learnings that are taught in the introductory-level Computer Science Fundamentals MicroBachelors program, offered by the same instructor. This is a self-paced course that continues in the development of C++ programming skills. Among the topics covered is the development of more advanced command-line programs that utilize file processing, linked lists, stacks, queues, trees, binary search trees, and tree balancing algorithms to solve problems. Several implements are presented in the development of each data structure, including hash maps, AVL, and red and black trees. Students learn how to utilize and program these data structures through the lectures and the labs. C++ programming material is presented over eight weeks of interactive lectures with quizzes to assess your understanding of the material. Students will experience hands-on practice writing C++ programs through twenty-two lab challenges. This course focuses on the efficiency of different data structures to solve various computational problems. A data structure is a collection of data values, the relationships among them, and the functions or operations that can be applied to the data. The data structures and algorithms learned in this class are the foundation of modern programming. Design and develop programs that utilize linked lists to store data internally. Design and develop programs that utilize stacks and queues to manage collections of data Utilize binary search trees and balanced trees to implement fast retrieval of data from a collection of data stored in memory. Wk 1 - File Processing Locks Objects Creating Passing to a Function Cin and Cout Output Input Getline Seeking Reading and Writing Appending Wk 2 - File Processing Labs Wk 3 - Linked Lists Linked Lists Templated Classes Wk 4 - Link List Labs Wk 5 - Stacks and Queues Wk 6 - Stack and Queue Labs Wk 7 - Trees and Binary Search Trees Tree Storage Binary Search Tree Tree Traversals Balanced Trees AVL Trees Rotation Red-Black Trees Wk 8 - Tree Labs Wk 9 - Final Exam Data structure refers to a programmatic scheme for organizing related pieces of information. It determines the way a computer program accesses, processes, and stores data. Some programming languages inherently support data structures, whereas other languages require an external library to use a data structure. Types of data structures The list below contains some of the most common data structures. Each type has many variations that allow an end user to perform different sets of operations on the data. Arrays Array structures contain a linear sequence of data, usually of a singular type. Arrays typically use a zero index, meaning the first element is assigned an index of 0, the second element an index of 1, and so on. To access a specific piece of data in the array, a user must know its index number. Hash tables A hash table or hash map is a non-linear data structure in which each element is assigned a unique computer hash. The hashes are usually of a fixed length and are produced using a predetermined key. Data lookups can be completed using a known hash or the key, which makes it an extremely efficient method of accessing large volumes of data. Stacks/queues Stacks and queues are linear sequences of data similar to arrays. With these types, however, the way the data is organized depends on when each piece was added to the data set. Stacks use a “last in first out” (LIFO) structure where the last element added is the first one removed. Queues use a similar approach with a “first in first out” (FIFO) structure instead, meaning the newest elements are added to the end of the sequence instead of the beginning. Linked lists A linked list is another linear sequence of data where the physical order of the data does not match the sequence. Instead, each element contains a “pointer” that indicates the next element in the sequence. This means all data in the list must be accessed in order, which makes it less efficient for large sets of data than other structures. Trees Trees are non-linear data structures based on a series of parent-child relationships. Data in these structures is accessed by starting with a single root node and following each branch until it ends with a single leaf node. These types of structures are common for establishing a hierarchy in wireless networks. Graphs Graph structures are non-linear sequences that are organized according to each element’s spatial relationship. Each graph contains a finite number of elements, either vertices (points on the graph) or the edges that connect them. The order in which data is accessed depends on the type of graph. This article was updated April 2021 by Kaiti Norton. AT&T is switching things up a little. The company has announced a series of new unlimited plans that start at \$65 for a single line, or \$35 per line with four lines. There are actually three new unlimited plans on offer — including the Unlimited Starter plan, the Unlimited Extra plan, and the Unlimited Elite plan. AT&T isn’t the first provider to offer a range of unlimited plans — Verizon has done the same, offering unlimited data in each, but different perks depending on the plan you go for. As the name suggests, the AT&T Unlimited Starter plan is the least expensive, coming in at \$65 for one line, or \$35 per line for four lines, bringing the total to \$140. This plan offers unlimited talk, text, and data in North America, but that’s about it — so if you want anything extra, you’ll have to upgrade to another one of the AT&T Unlimited plans. Unlimited Starter will be available starting on November 3. The next step up is the Unlimited Extra plan, which offers the same perks as the Unlimited Starter plan, but it adds 15GB of hot spot data per line, and access to fast speedsup to 50GB. Unlimited Extra is available for \$75 for a single line, or \$40 per line with four lines, which brings the total to \$160. Unlimited Extra will be available starting on November 3. Last but not least is the Unlimited Elite plan, which offers 30GB of mobile hotspots per line, and 10GB of high-speed data. Even better than that is that the plan comes with HBO, and will come with HBO Max when it launches in May 2020. It also offers HD streaming — so presumably, the other plans do not. Unlimited Elite is available for \$85 for a single line, or \$50 per line for four lines, bringing the total to \$200. This plan won’t launch alongside the rest — AT&T says it’ll be available in the “coming weeks.” AT&T is offering a few extra perks as well. For example, the company is offering \$700 in credit to customers who add a new line and trade in a qualifying device. As usual, active military, veterans, first responders, and their families can get a 25 percent discount on the plans, so they could pay as little as \$27 per line for four lines. Editors’ Recommendations

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