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Basics of data structures including their fundamental building blocks: arrays and linked lists. How to use Dynamic arrays. A very powerful and widely used technique called hashing and its applications. How to use priority queues to efficiently schedule jobs, in the context of a computer operating system or real life.

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Some of the more commonly used data structures include lists, arrays, stacks, queues, heaps, trees and graphs. The way in which the data is organized affects the performance of a program for different tasks. Data structures are generally based on the ability of a computer to fetch and

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ability to define at a sufficiently high level of abstraction the data structures and algorithms that are needed; (ii) the ability to devise alternative implementations of a data structure; (iii) the ability to synthesize a correct algorithm; and (iv) the ability to analyze the computing time of the resultant program.

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ADT 1.1: Abstract Data Type  
NaturalNumber ADT NaturalNumber is objects: an ordered subrange of the integers starting at zero and ending at the maximum integer (INT\_MAX) on the computer functions: for all x, y &in; NaturalNumber ; TRUE, FALSE &in; Boolean and where +, -, <, and == are the usual integer operations  
NaturalNumber Zero( )::= 0 Boolean

IsZero(x)::= if (x) return FALSE else return TRUE  
Boolean Equal(x, y)::= if (x == y) return TRUE else return FALSE  
NaturalNumber Successor(x ...

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ADT 1.1: Abstract Data Type NaturalNumber ADT NaturalNumber is objects: an ordered subrange of the integers starting at zero and ending at the maximum integer (INT\_MAX) on the computer functions: for all x, y  $\in$  NaturalNumber ; TRUE, FALSE  $\in$  Boolean and where +, -, <, and == are the usual integer operations NaturalNumber Zero( ) ::= 0 Boolean IsZero(x) ::= if (x) return FALSE else return TRUE Boolean Equal(x, y) ::= if (x == y) return TRUE else return FALSE NaturalNumber Successor(x ... Sign in. Fundamentals of Data Structures - Ellis Horowitz, Sartaj Sahni.pdf.zip - Google Drive. Sign in

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