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Data Structures in C are used to store data in an organised and efficient manner. The C Programming language has many data structures like an array, stack, queue, linked list, tree, etc. A programmer selects an appropriate data structure and uses it according to their convenience. Let us look into some of these data structures: Array; Stack ; Queue

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2. “ Data structure in C ” by Tanenbaum, PHI publication / Pearson publication. 3. Pai: ” Data Structures & Algorithms; Concepts, Techniques & Algorithms ” Tata McGraw Hill. Reference Books: 1. “ Fundamentals of data structure in C ” Horowitz, Sahani & Freed, Computer Science Press. 2.

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Algorithms and data structures in C/C++ Data

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Structures All programmers should know something about basic data structures like stacks, queues and heaps. Graphs are a tremendously useful concept, and two-three trees solve a lot of problems inherent in more basic binary trees. Stack Data Structure;

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A data structure is a particular way of organizing data in a computer so that it can be used effectively. For example, we can store a list of items having the same data-type using the array data structure. Array Data Structure. This page contains detailed tutorials on different data structures (DS) with topic-wise

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problems.

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31. What are the major data structures used in the following areas : network data model & Hierarchical data model? RDBMS – Array (i.e. Array of structures) Network data model – Graph Hierarchical data model – Trees. 32. If you are using C language to implement the heterogeneous linked list, what pointer type will you use?

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The following are the advantages of a data structure:

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Reusability: The data structures provide reusability means that multiple client programs can use the data structure.

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A. storage structure. B. data structure. C. data relationship. D. data operation. 57. Which of the following are the operations applicable an primitive data structures? A. create. B. destroy. C. update. D. all of the above. 58. The use of pointers to refer elements of a data structure in which elements are logically adjacent is A. pointers ...

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Learn Data Structures and Algorithms

First of all, this is not introductory in the strict sense -

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you should be fairly good at C programming, but need not know data structures and algorithms. But it can be considered as an introduction to data structures and algorithms if you aren't a novice in C programming.

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C++ language, featuring a wealth of tested and debugged working programs in C and C++. Explains and analyzes algorithms — showing step-by-step solutions to real problems. Presents algorithms as intermediaries between English language descriptions and C programs. Covers classes in C++, including function members, inheritance and object orientation, an example of implementing abstract data types in C++, as well as polymorphism.

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