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Data Structures :: Interview Questions and Answers

Why Data Structures Interview Questions?

In this section you can learn and practice interview questions based on "Data Structures" and improve your skills in order to face the interview, competitive examination and various entrance tests (CAT, GATE, GRE, MAT, Bank Exam, Railway Exam etc.) with full confidence.

Where can I get Data Structures interview questions and answers with explanation?

IndiaBIX provides you lots of fully solved Data Structures interview questions and answers with Explanation. All students, freshers can download Data Structures quiz questions with answers as PDF files and eBooks. Solved examples with detailed answer description, explanation are given and it would be easy to understand. View the solution for the problems with feel and good user interface; easily go through all questions and answers.

How to answer Data Structures interview questions?

You can easily answer the interview questions based on Data Structures by practicing the exercises given below.

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1. What is data structure?
   A data structure is a way of organizing data that considers not only the items stored, but also their relationship to each other. Advance knowledge about the relationship between data items allows designing of efficient algorithms for the manipulation of data.
2. List out the areas in which data structures are applied extensively?
   1. Compiler Design,
   2. Operating System,
   3. Database Management System,
   4. Statistical analysis package,
   5. Numerical Analysis,
   6. Graphics,
   7. Artificial Intelligence,
   8. Simulation
3. What are the major data structures used in the following areas : RDBMS, Network data model and Hierarchical data model.
   1. RDBMS = Array (i.e. Array of structures)
   2. Network data model = Graph
   3. Hierarchical data model = Trees
4. If you are using C language to implement the heterogeneous linked list, what pointer type will you use?

The heterogeneous linked list contains different data types in its nodes and we need a link, pointer to connect them. It is not possible to use ordinary pointers for this. So we go for void pointer. Void pointer is capable of storing pointer to any type as it is a generic pointer type.

5. Minimum number of queues needed to implement the priority queue?

Two. One queue is used for actual storing of data and another for storing priorities.

6. What is the data structures used to perform recursion?

Stack. Because of its LIFO (Last In First Out) property it remembers its 'caller' so knows whom to return when the function has to return. Recursion makes use of system stack for storing the return addresses of the function calls.

Every recursive function has its equivalent iterative (non-recursive) function. Even when such equivalent iterative procedures are written, explicit stack is to be used.

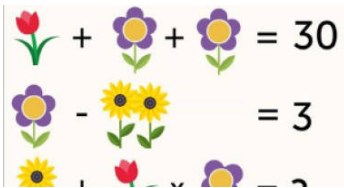**Networking - Interview Questions and Answers Page 14**
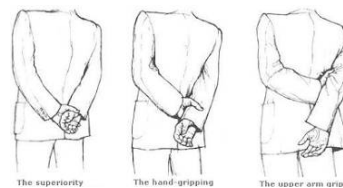
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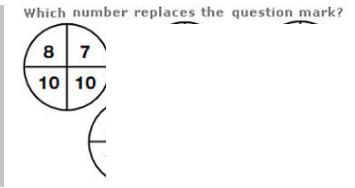**L & T Infotech Placement Papers**

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