

Data Structure Interview Question & Answers

Part - II

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Q1 What is the working of LIFO?

- Lifo stands for Last In First Out access order. It is directly corresponding to how the data can be worked on and modified. The data entity is stored or pushed in last is the first one to be worked on at any point in time. If there is requirement to access the very first element stored then first you have to retrieve all of the data that came after that element.

Q2 What are multidimensional array?

- Multidimensional arrays are the arrays that span across more than one index variable for every point of storage. This is primarily used in cases where data cannot be represented or storage using only one dimension.

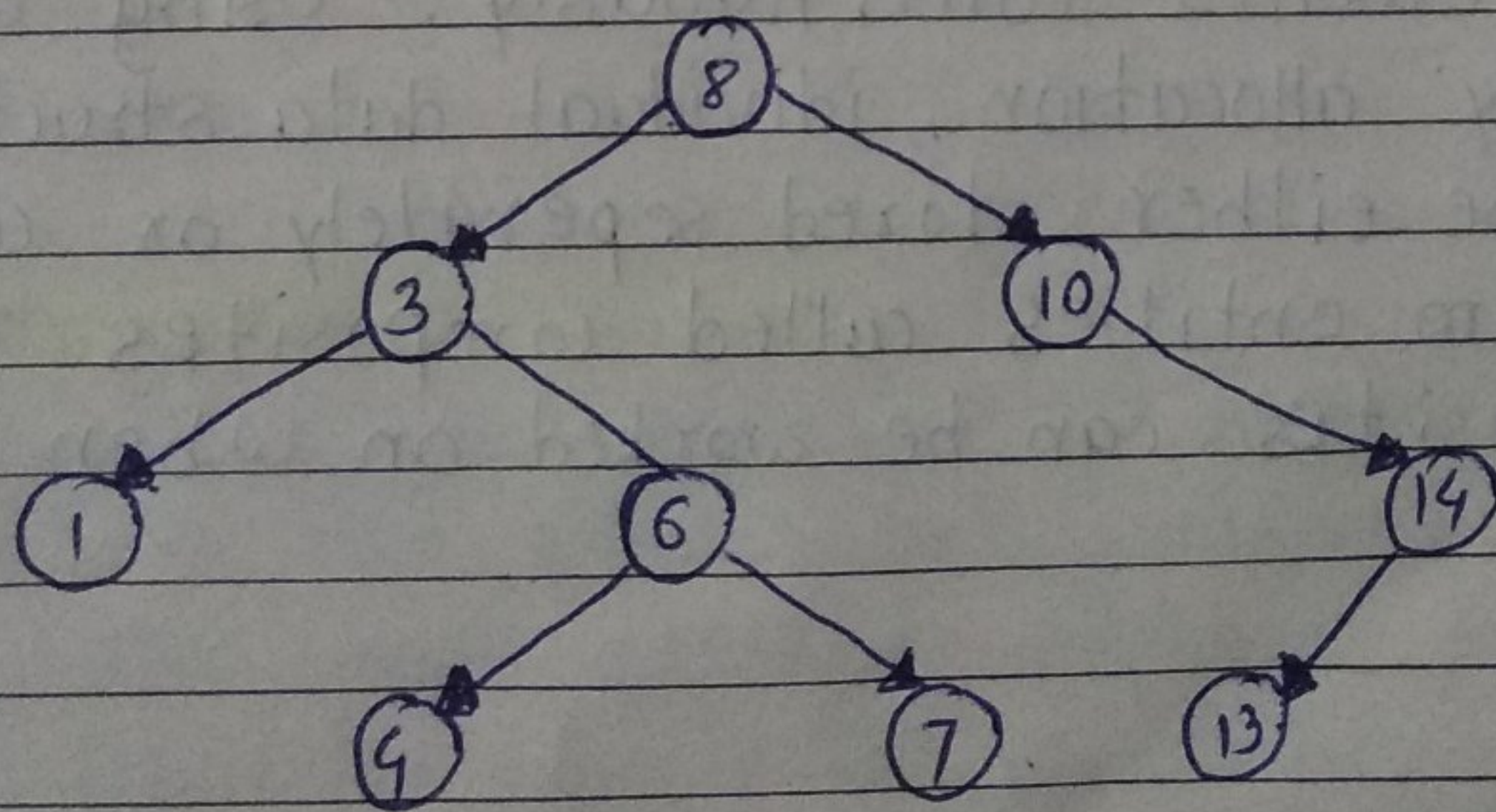
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Q3 Are Linked List Linear or non Linear data structures?
→ Linked list are considered to be the best words here (BOTH). Based on usage, if it is a storage policy then it is considered as non-linear. Whereas if a person is considered it based on retrieval strategies then it can be considered linear.

Q4 What is Binary Search tree?

→ A binary search tree is a data structure that stores data in a very efficient manner. It consists of two primary nodes from root node. The main thing here is that the values of the nodes in the left sub-tree are less in number than the values of the root node and the values of the nodes on the right of the root node are correspondingly higher than the root. Also individually both of these left and right subtree are their own binary search trees at all points of time.



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Q5) What is the meaning of FIFO?

→ FIFO is also known as First in First out is a way of representing a data operation on factors such as how data is accessed and in what order here the data is first put into the list will be the first entity to exit from the ordered data structure

Q6) What is the difference between void and null in Data Structure?

→ Void is data type identifier in data structures while null is considered to be value with no physical presence. When while is used it indicates that there is no size while initializing the data structure.

Q7) What is dynamic memory management?

Dynamic memory management is a technique in which storage units are allocated based on requirements continuously. Using dynamic memory allocation, individual data structures can be either stored separately or combined to form entities called composites. These composites can be worked on when required.

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Q 8) What are push and pop operations in Data Structure?

→ Both push and pop operations denote how data can be stored and used when required in a stack. The push operations denotes that users are adding data into structure, and the pop operation denotes data being pulled or removed from the structure. Usually, the top most element is considered when performing push and pop operations.

Q 9) How variable is stored in memory when using Data structures?

A variable is stored based on the amount of memory that is needed. First the required quantity of memory management is assigned and later it is stored based on the data structure being used. Using concept such as dynamic allocation ensures high efficiency and that the storage unit can be supplied based on requirements in real time.

Q 10) What is merge sort?

→ Merge sort is method of sorting which is based on the divide and conquer technique. Here the data entities adjacent to each other are first merged and sorted in every iteration to create sorted lists. These smaller sorted lists are combined at the end to form the completely sorted list.

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