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Data Structures interview Questions & Answers

Part - 1

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Q 1 What are data structures ?

→ Data structures are the methods and techniques used to maintain data in an orgnized fashion. This is primarily done to ensure that data can be manipulate and accessed in an efficient manner.

Q 2 What is difference between File structure & Data Structure

	Data structure	File Structure
i	Data Stored on a ~~disk~~ Both Disk and Ram	Data stored on Disk
ii	Sta Costomized storage polices	Standard file storage polices
iii	High compatibility with external apps	Low compatibility with extarnal apps
iv		

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Q3) What is Linked List

→ Linked List is a data structure consist of individual entities called nodes. These nodes have capability of to connect other nodes and create chain of the process. These continuous chain structure forms a linked list. as the name suggest.

Q4) What are the types of searching used in Data Structure?

→ There are two methods of searching

i) Linear search
Linear search involves iterating over a data unit in order to perform the required operation

ii) Binary search
Binary search is more efficient in a way that it has the ability to split the data unit into chunks and then perform search operation.

Q5) How are individual elements accessed in an array?

Each of the values in an array is given an index position from 0 to n-1, where "n" is the number of elements in the array. individual elements can be accessed by using the index element of for operations. Multidimesional arrays have more than one dimension to work with.

Q6) How does binary search work ?

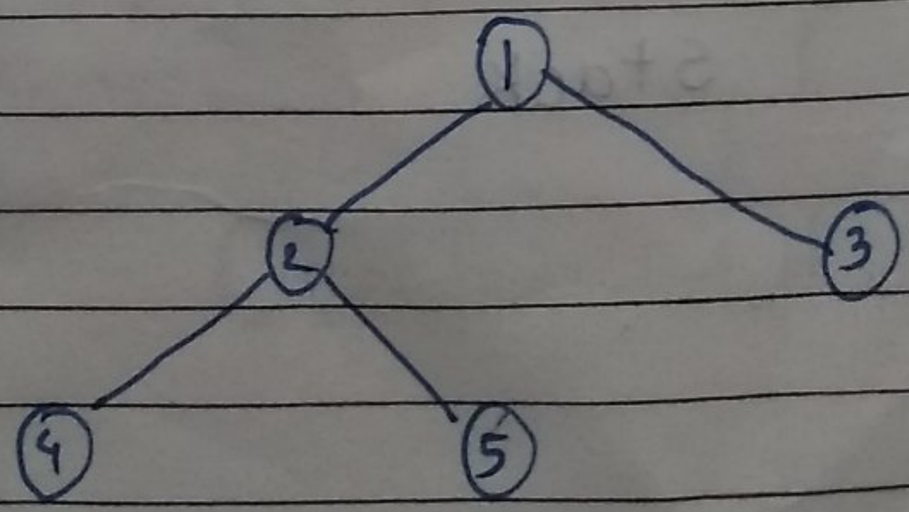
→ Binary search is used when there is primarily a creation of efficiency. it involves working on already ordered data, which is sorted either in ascending order or descending order. To begin with the middle element of the array is find out and search begin from there The array is searched in two parts based on a search value being higher or lower than middle element. It is the key to know the order of the arrangedment to help search the value accordingly.

Q7) What is Queue in Data structure ?

→ A Queue is widely used data structure that is used to denote the ordered access and manipulation of an element. The operation of this data structure is exactly same as literal queue in the real world Elements are added one after tha other and are processed onthe front end.

Q8) What is binary tree ?

→ A binary tree, as a name suggest, is the tree data structure with two nodes, which are the nodes on the left and the right sides of the root node. in usage, binary tree are considered to be extended linked list



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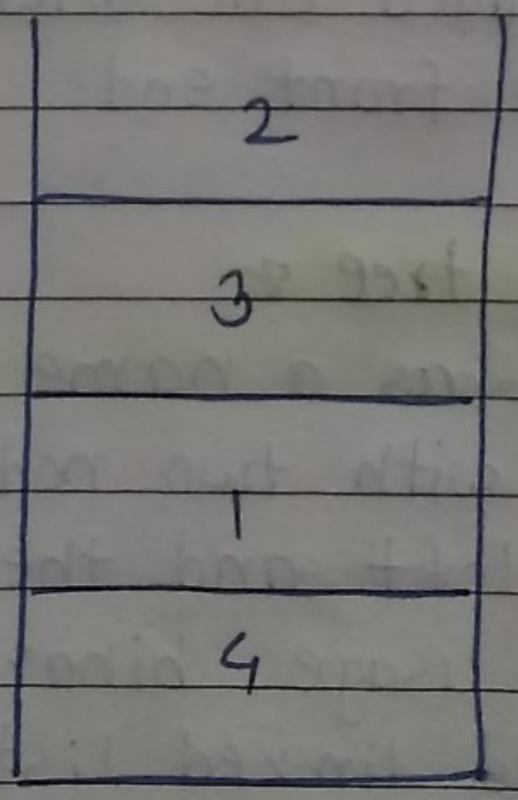
Q9) Where are Data Structure primarily used?

→

i) Numerical operation
ii) Operating System design
iii) Artificial intelligence
iv) Compilar design
v) Database handling
vi) Graphical processing
vii) Lexical analysis
viii) Statistics

Q10) What is the meaning of stack?

A stack is another widely used data structure that provides users with the ability to work with data at one point only. As the name suggest this can literally corresponds to working of a stack of cards.



Stack

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