

DATA STRUCTURES VIVA QUESTIONS

1Q) What is a Data Structure?

Ans) A **Data Structure** is a data object together with the relationships that exists among the instances & among the individual elements that compose an instance.

2Q) Types of Data Structures and give examples?

Ans) There are two types of Data Structures:

1. **Linear Data Structures:** A data structure is said to be linear if the elements form a sequence. It is sequential and continues in nature i.e. access the data in sequential manner.

In linear data structure we can not insert an item in middle place and it maintains a linear relationship between its elements

egs: Array, Linked list, Stack, Queue, Dequeue etc.

2. **Non Linear Data Structures:** A data structure is said to be non-linear if elements do not form a sequence. (Not sequential).

It does not maintain any linear relationship between their elements. Every data item is attached to several other data items in a way that is specific for reflecting relationships. The data items are not arranged in a sequential structure.

egs: Trees, Graphs.

[A data structure is linear if every item is related with next and previous item and it is non linear if it is attach with many of the items in specific ways to reflect relationship.]

3Q) What is a Singly Linked List?

Ans) Singly Linked List is a Sequence of dynamically allocated Storage elements, each element of which contains a pointer to its successor. A pointer to the first element of the list is called as head and a pointer to the last element of the list is called as tail used to keep track of the list elements.

4Q) What is Doubly Linked List?

Ans) In Doubly Linked List each element contains two pointers: One Pointer points to its successor and another to its predecessor (previous element).It is also called as two way linked list (traversing can be done in both directions).

Data Structures Lab Viva Questions And Answers

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