

# Data structure-1

SL NO	QUESTIONS
1	What is the relationship between a pointer and an array?
	There is a close-knit relationship between a pointer and an array. The array name is a pointer which only refers the initial address of array.
2	What is the purpose of using a multidimensional array?
	A multi-dimensional array is suitable to implement the non-linear data structures like tree and graph.
3	Why do you use pointer arithmetic?
	Pointers are used to step through memory sequentially by using pointer arithmetic
4	What is a linked list?
	A linked list is an array of nodes that makes it easy to rearrange data without having to shift data in memory.
5	What is an entry in a linked list called?
	An entry in a linked list is called a node.
6	What is the purpose of a doubly linked list?
	The purpose of the double linked list is to implement non-linear data structure like tree and graph.
7	What is used to define a node of a linked list?
	A self referential structure is used to define a node of a linked list.
8	How do you delete an element from any position of a linked list?
	Set a pointer to the node which will be deleted and another pointer to its previous node. Change the pointer in the previous node to next pointer in the node being deleted. Then delete the node.
9	How do you delete a node from any position of a linked list, if only address of deleted node is provided?
	Though the deleted node address is only provide, so physically we can't remove the deleted node, only we have to shift the next node data into deleted node , then next to next node data into next node and continue till end of linked list ,finally last node will be empty and delete the last node
10	How do you delete a node from the front of a linked list?
	Declare a temporary pointer and set it to next pointer of the front node. Then delete the front and set the front to temporary pointer.