1. What are some of the advantages that linked lists have over arrays?

- Linked List is a dynamic data structure which creates memory according to its requirement that is; it can change memory size at run time, so it has no memory loss. Array is a static data structure that is fixed in size and cannot change at run time, so it wastes memory.

- Insertion and Deletion operations of linked lists are easier than array insertion and deletion.

- It utilizes the memory in efficient manner, array wastes memory size.

1. What advantage does a linked list have over the STL vector ?

Linked lists advantage is the speed at which a node may be inserted into or deleted from the list.

1. What is a list head?

A pointer that usually points to the first node of the list.

1. What is a self-referential data structure?

A data structure that contains a pointer to an object of the same type as that being declared.

1. How is the end of a linked list usually signified?

Usually the last node point to NULL(Address 0).

1. Name five basic linked list operations.

- Appending a node

- traversing a node

- inserting a node

- deleting a node

- destroying the list.

1. What is the difference between appending a node and inserting a node?

Appending - Adding the node at the end of the list.

Inserting - Adding a node to the list, not necessarily at the end.

1. What does “traversing the list” mean?

It means traveling through the list.

1. What are the two steps required to delete a node from a linked list?

- Remove the node from the list without breaking the links created by the next pointers.

- Delete the node from memory.

What is the advantage of using a template to implement a linked list?

A template can easily create and store any kind of data (or data structure) in linked lists.

What is a singly linked list?

What is a doubly linked list?

What is a circularly linked list?

Single - Each node is linked to a single other node.

Double - Each node not only points to the next node, but also the previous one.

Circular - The last node of the list points to the first node.

What type of linked list is the STL list container?

Doubly Linked List