

Data Structures
CS 246 - 040
Quiz 04 Solutions

- a. Name the two different types of nodes used in sequential data structures.

Solution:

singly linked node and doubly linked node

- b. What is a linked list?

Solution:

a linked list is a collection of nodes linked (attached) to each other

- c. What is a null terminated doubly linked list?

Solution:

a null terminated doubly linked list is a linked list whose first node's previous link and last node's next link are equal to null.

- d. Write the void function named A() that takes two int Node pointer parameters. Given that the parameters are singly linked nodes, the function makes the parameters links of each other only if they are both not null.

Solution:

```
void A(Node<int>* a, Node<int>* b)
{
    if(a != NULL && b != NULL)
        a->link = b;
        b->link = a;
    }
}
```