ECE 220 Computer Systems & Programming

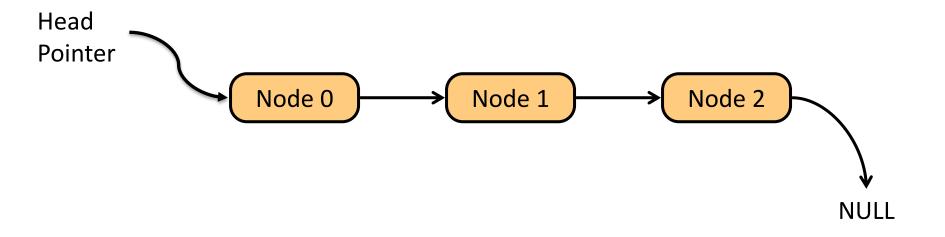
Linked List



The Linked List Data Structure

A linked list is an ordered collection of nodes, each of which contains some data, connected using pointers.

- Each node points to the next node in the list.
- The first node in the list is called the _____
- The last node in the list is called the _____

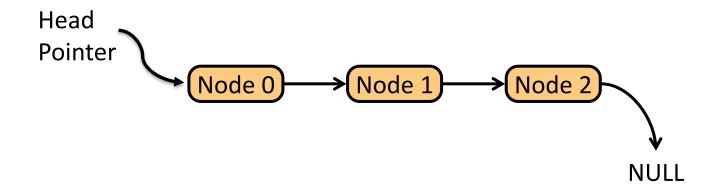


Array vs. Linked List

Element 0

Element 1

Element 2



	Array	Linked List
Memory Allocation	Static/Dynamic	Dynamic
Memory Structure	Contiguous	Not necessary consecutive
Order of Access	Random	Sequential
Insertion/Deletion	Create/delete space, then shift all successive elements	Change pointer address