Linked List Operations

15-123

Systems Skills in C and Unix
Why Linked Lists?

- Flexible memory management
- Easy adds and deletes from a list
- A data structure you would always consider using
Types of Linked Lists
Singly Linked Lists
Doubly Linked Lists
Multilinked Lists
Linked List operations on DLL’s
Adding Nodes
Deleting Nodes
Traversing a DLL
Making a singly LL circular
Rotating a circular LL
Things we should know about LL’s

- Understand the difference between a LL node and a pointer to a node
- Head is typically NOT a node, but a pointer to the first node
- Be careful dealing with LL nodes, as misguided link could create infinite loops, memory leaks or incorrect outputs
Coding Examples