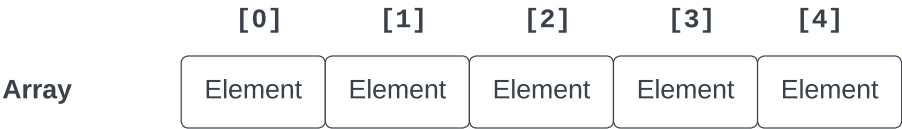
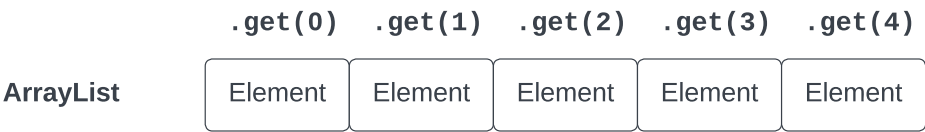


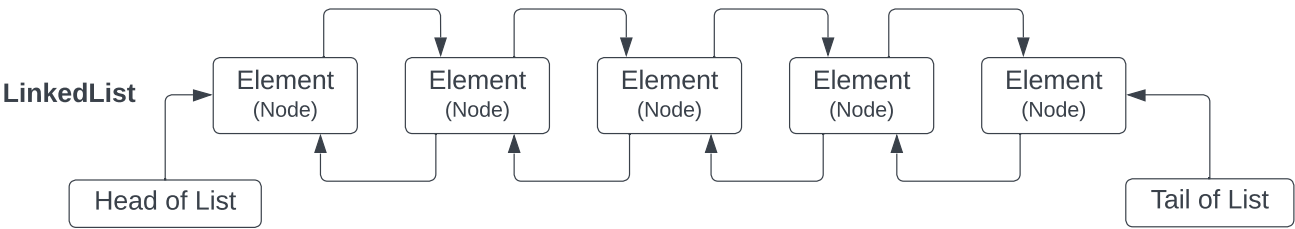
# 01 - Collection Class Objects Illustrated



Array is NOT a Collections class object - it is included for comparison  
Array is fixed size;  
Size must known at instantiation;  
Cannot add or remove element;  
Access is by index [ ]



ArrayList is variable size;  
Add or remove elements;  
Access via get() , add(), remove() methods;  
Somewhat inefficient when add/remove elements (has to move elements around)



LinkedList is variable size;  
Add/remove elements  
Access via add(), addFirst(), addLast(), getFirst(), getLast(), get(), listIterator  
More efficient that ArrayList, Stack when add/remove elements



Queue is variable size;  
Only add elements to end - **add()**  
Only retrieve elements from the beginning - **poll()**  
FIFO (First-In, First-Out) data structure  
Once an element is retrieved, it is removed from the Queue

