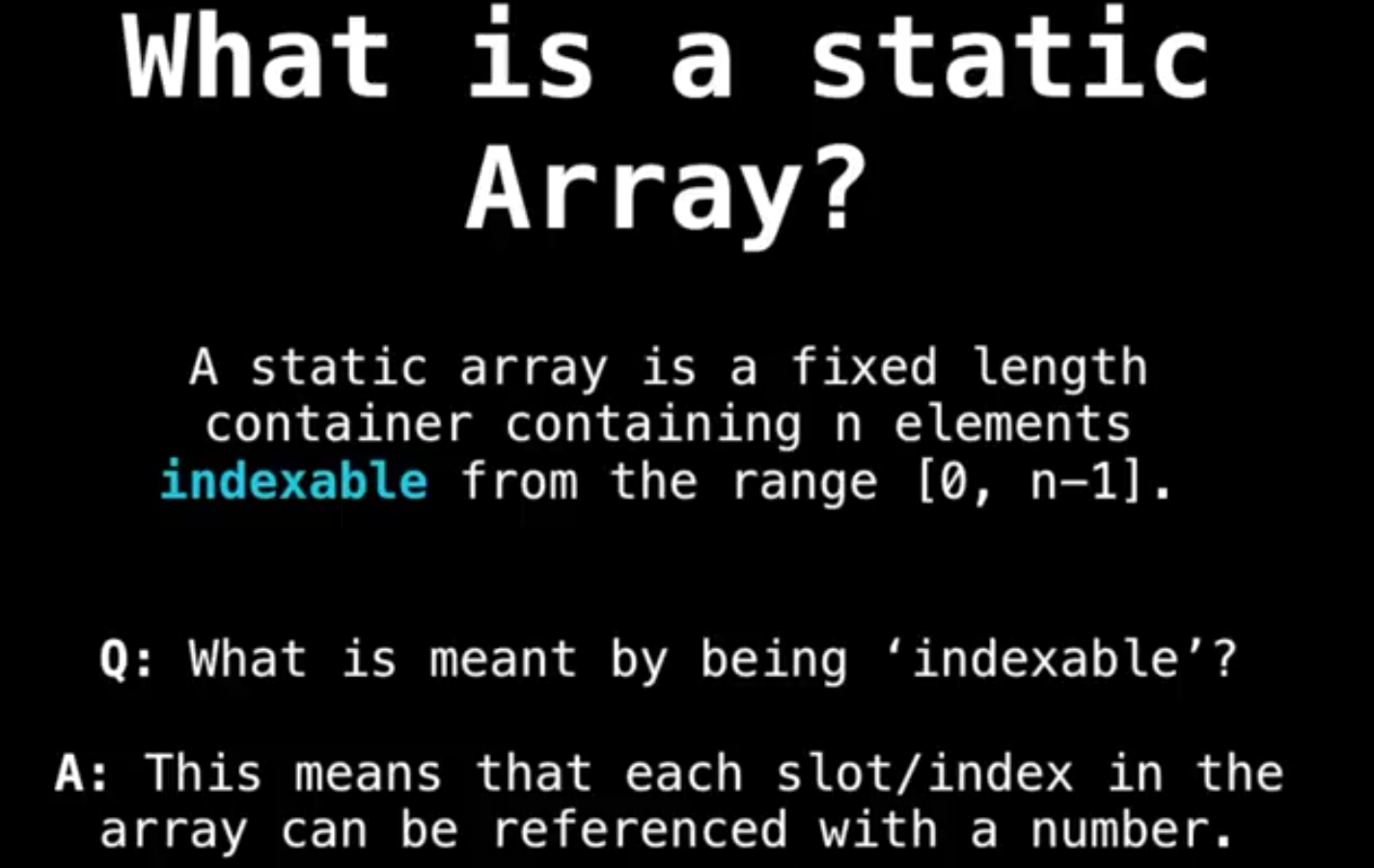
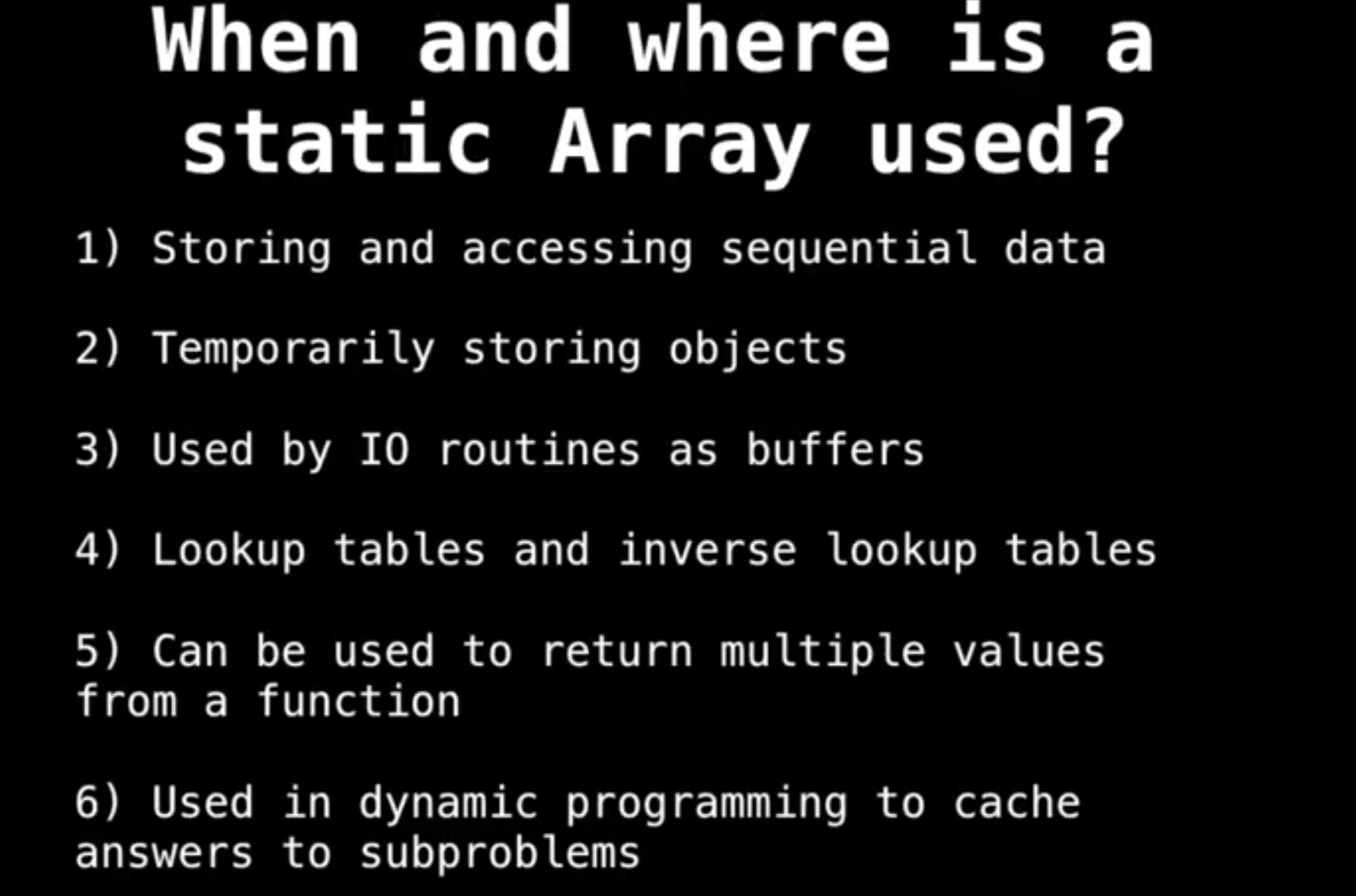
Data structures

28/02/2021

Time complexity:

Big-O notation

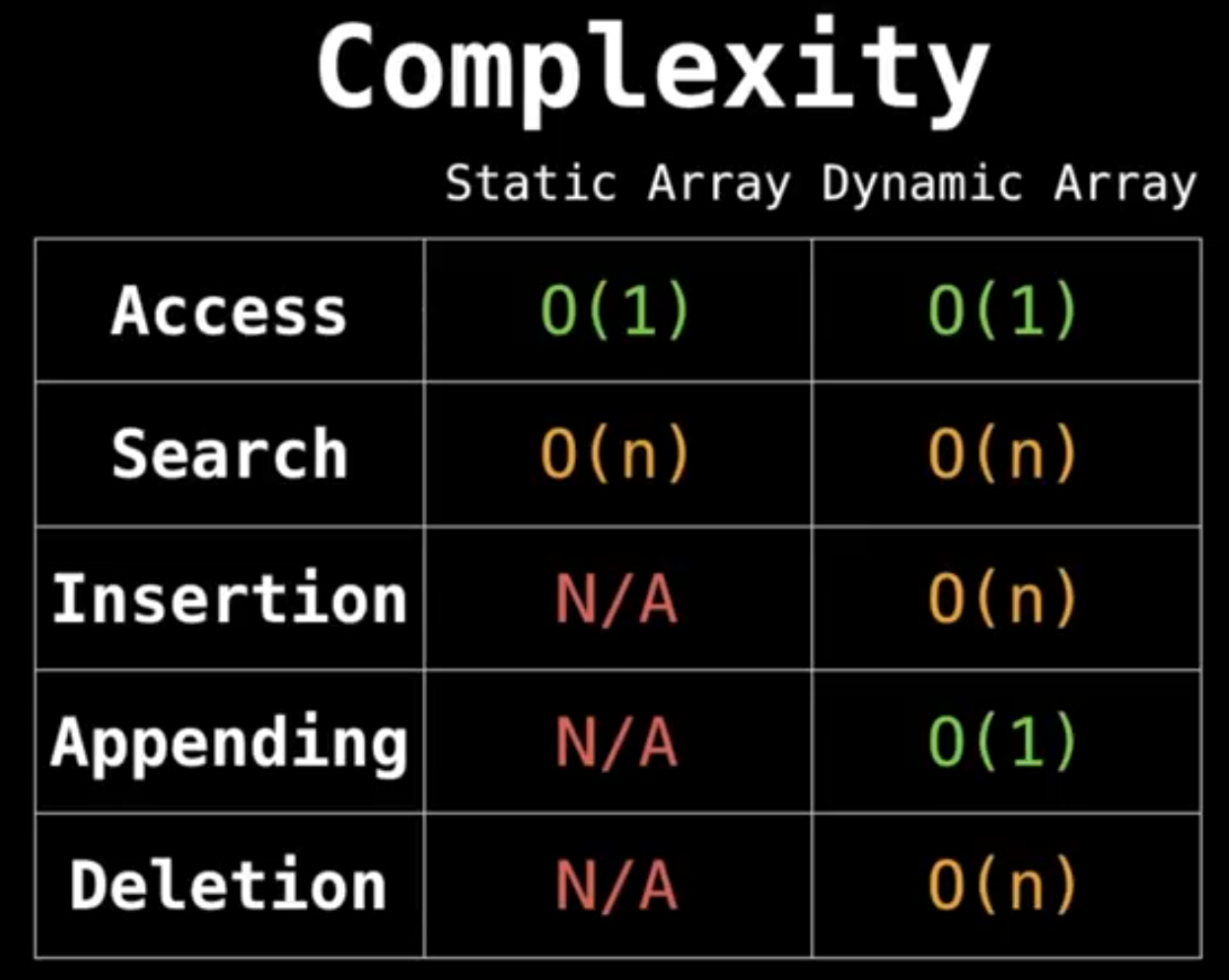




Buffer: Small chunks of data from and to stream.

Return multiple used.

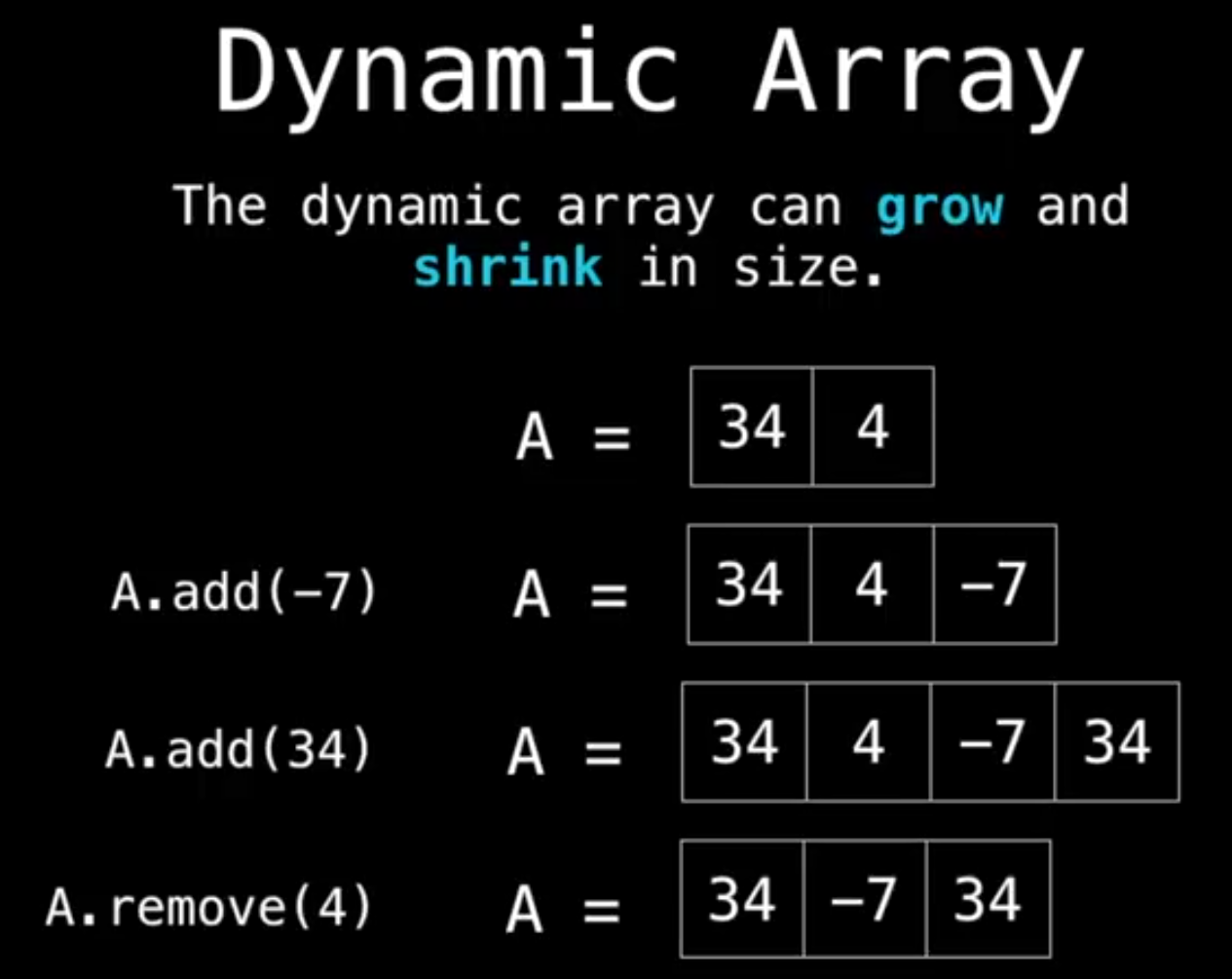
Dynamic program



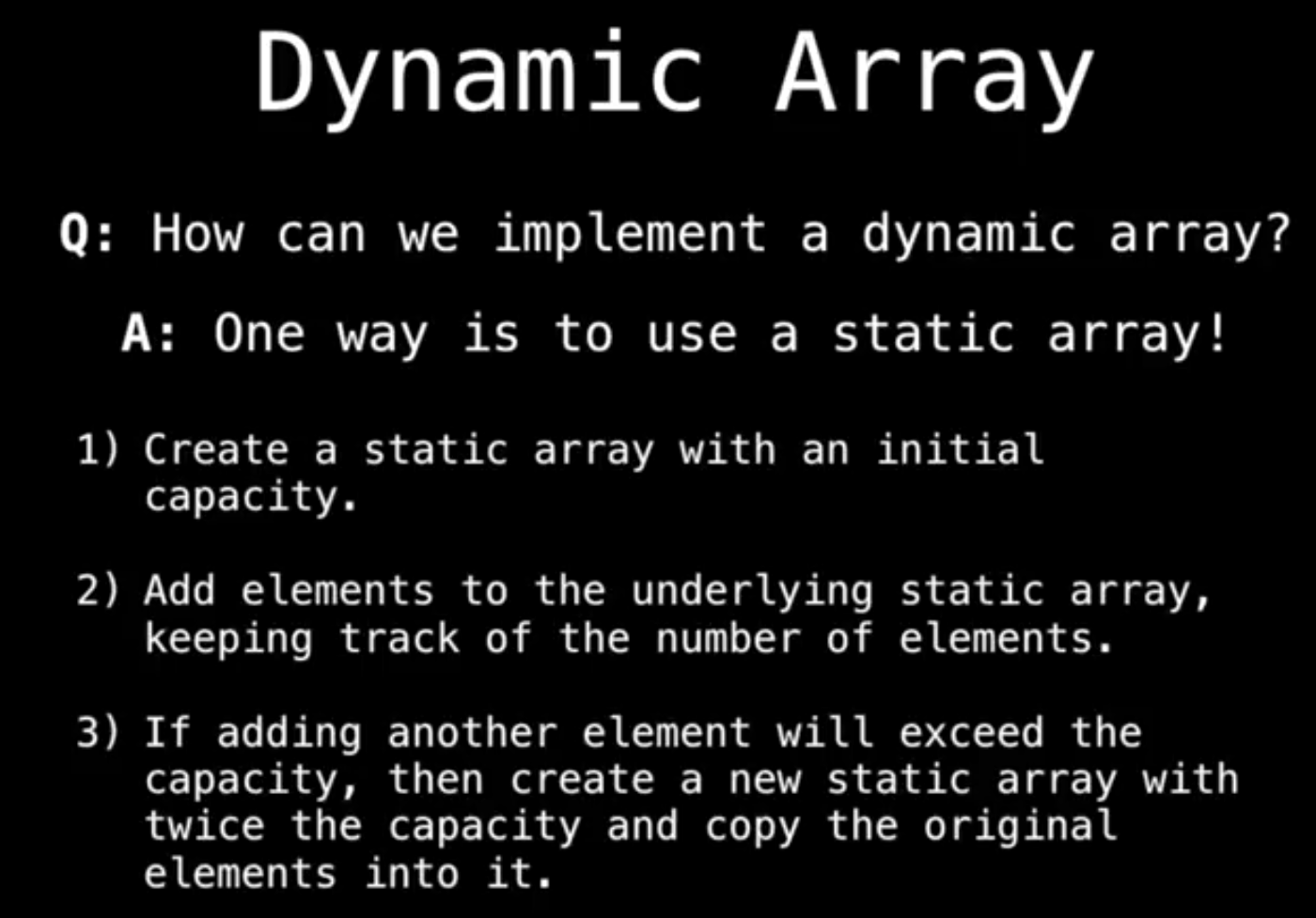
Appending is constant. Deletion and insertion are linear.

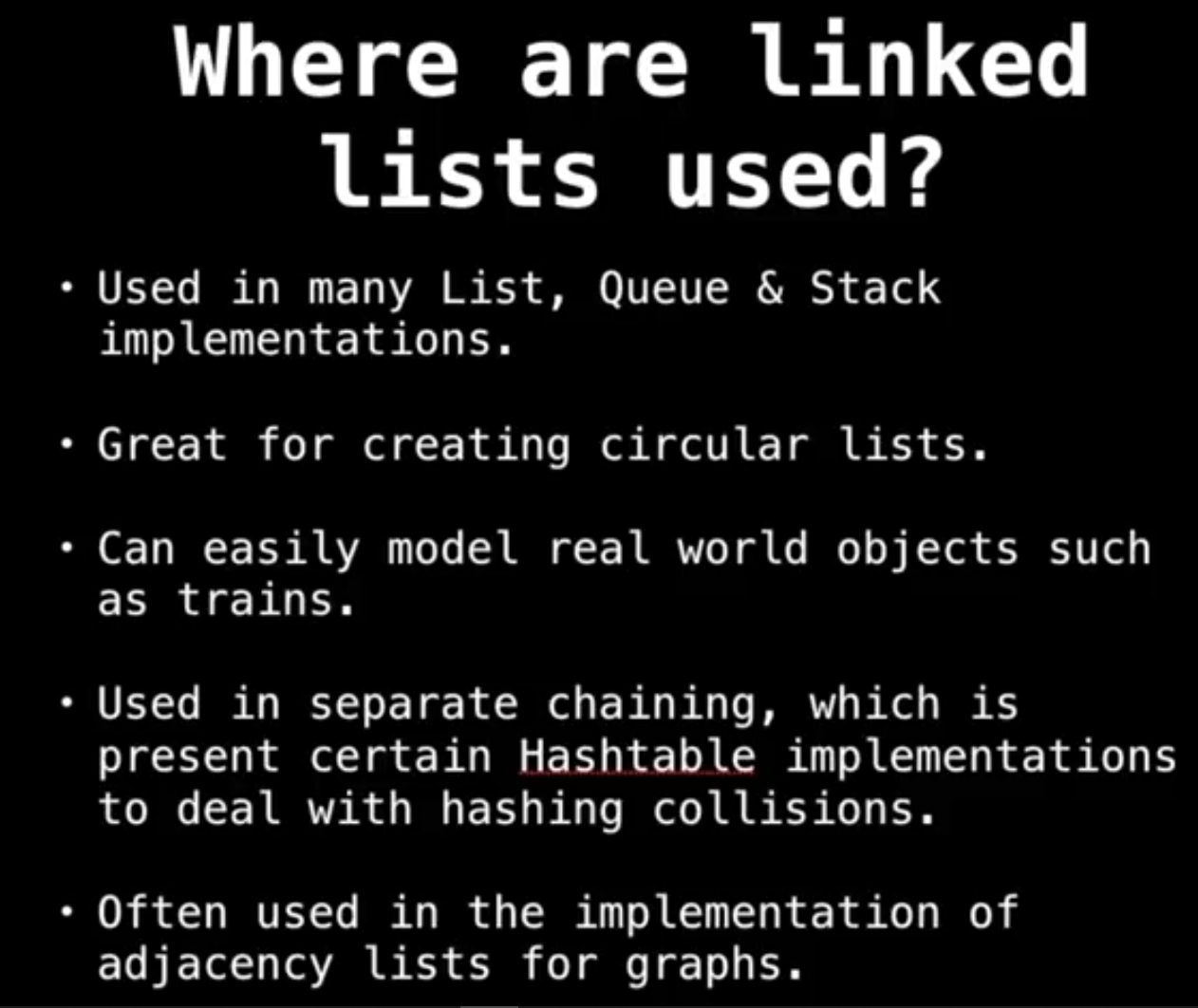


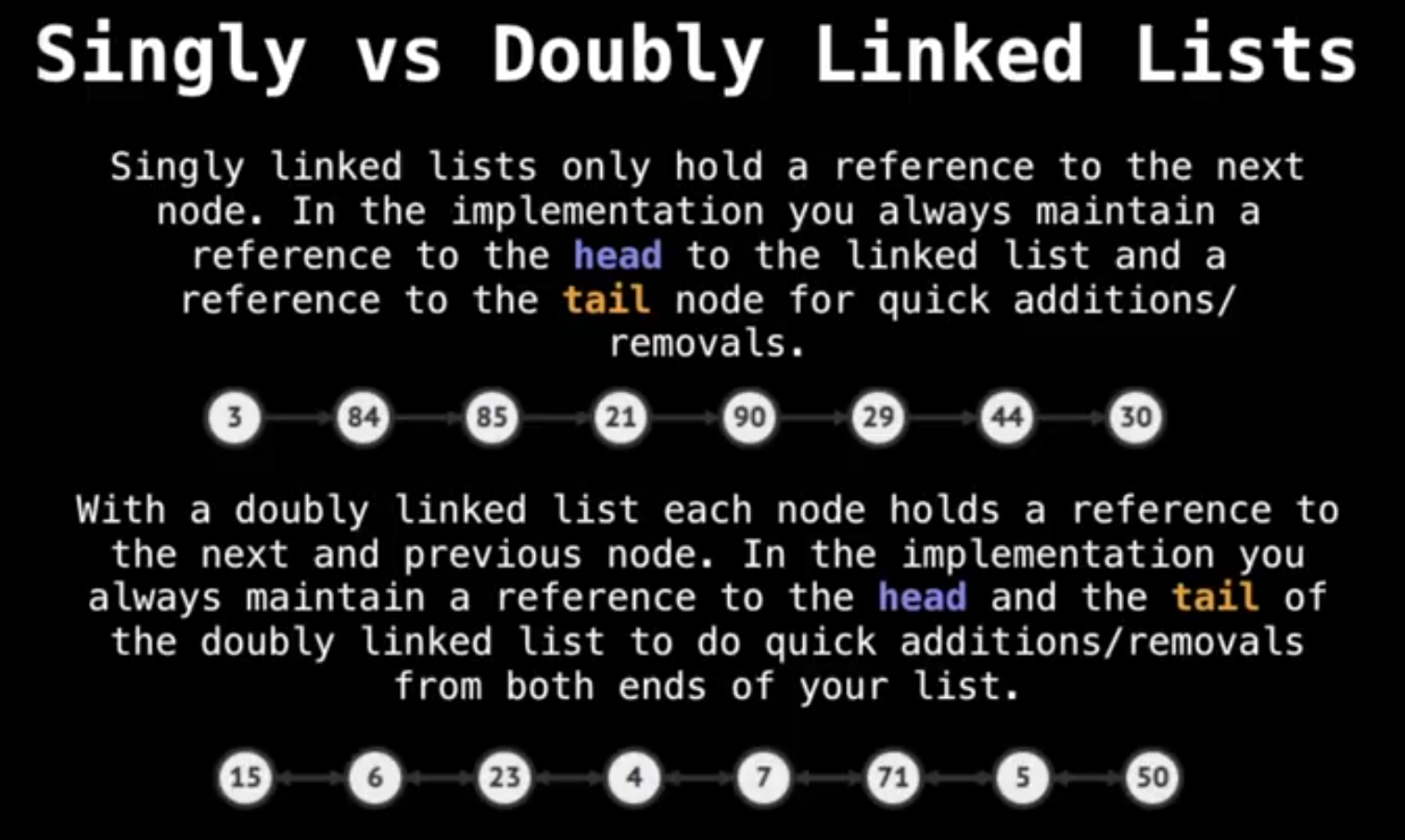
Indexing of array Is done internally.

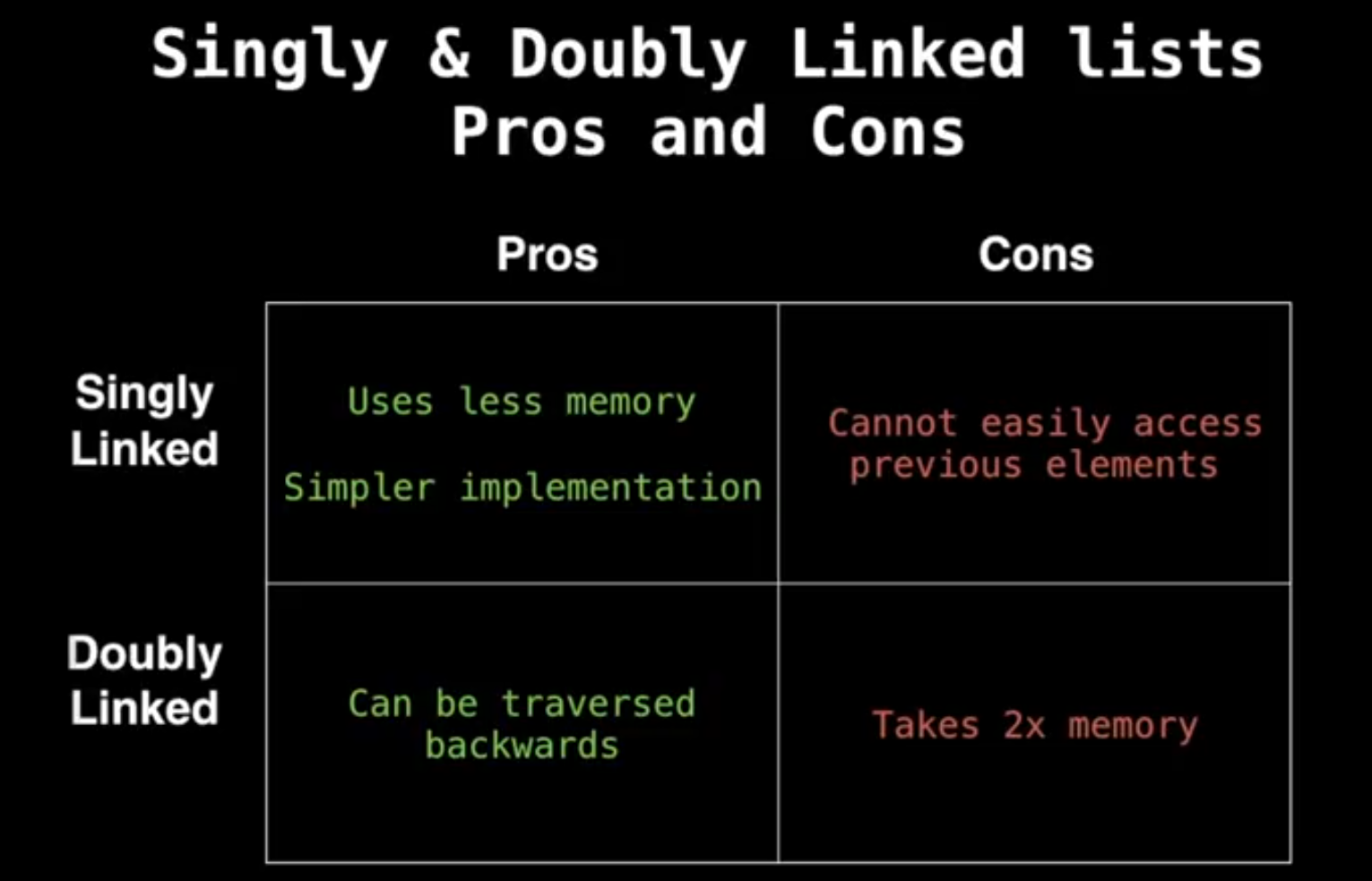


Grows and shrink according to need.



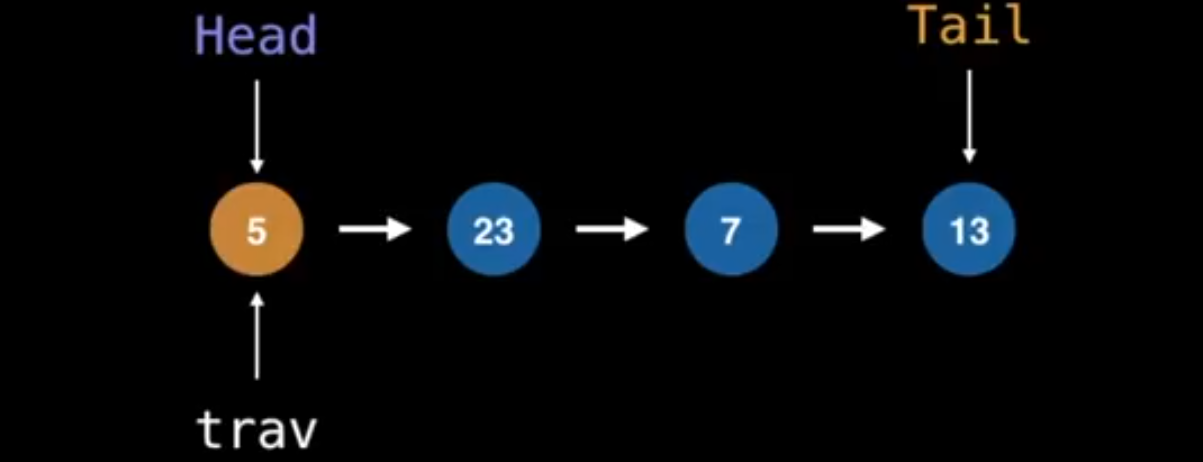


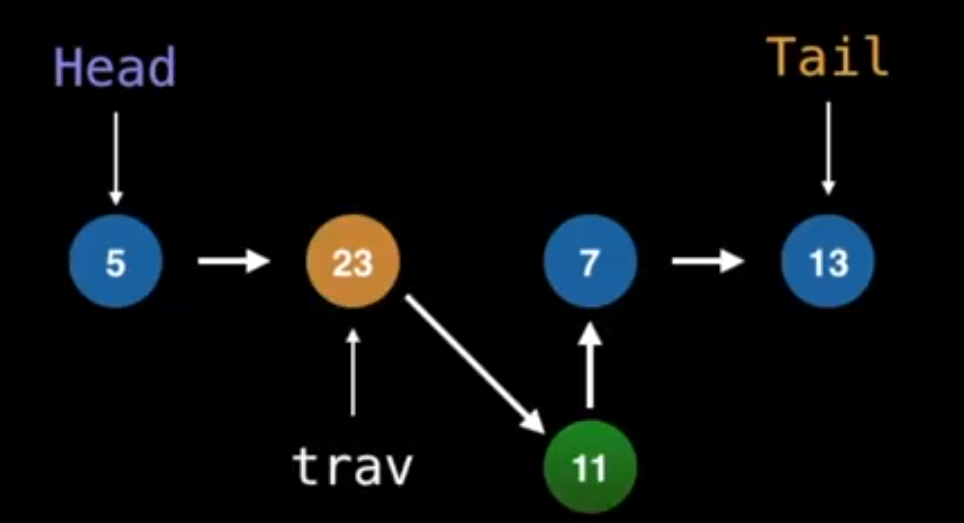




Insertion in singly linked list

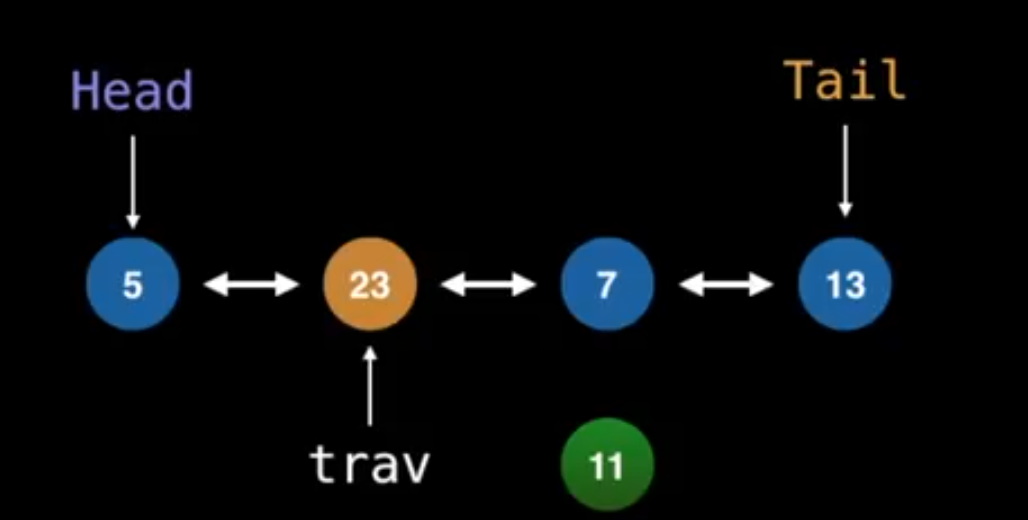
Traverser is a pointer which is updated in loop to the pointer of each node.

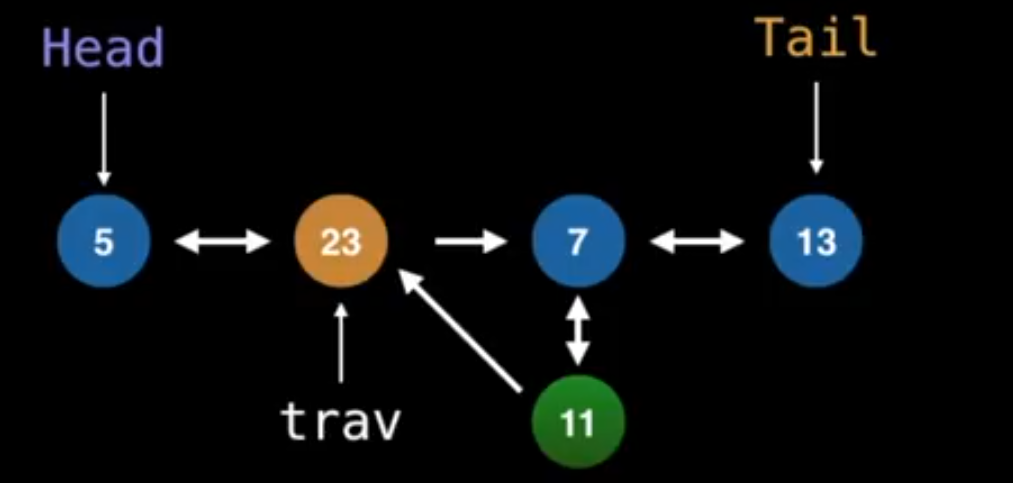


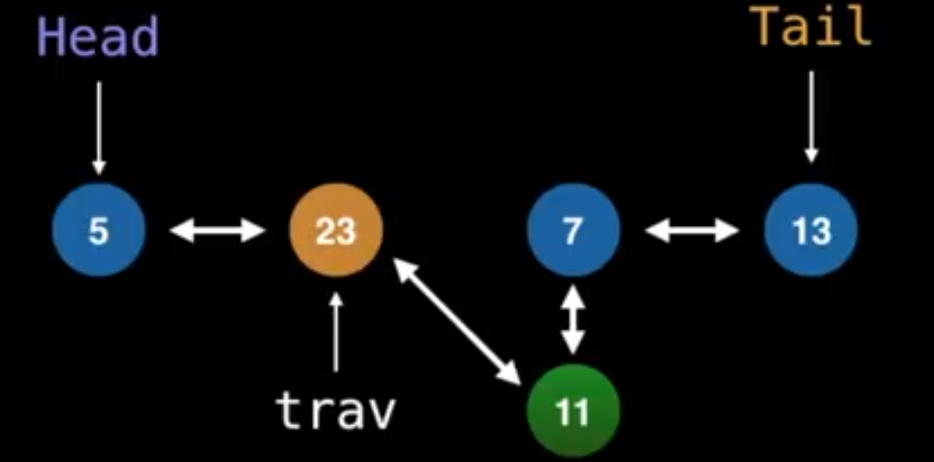




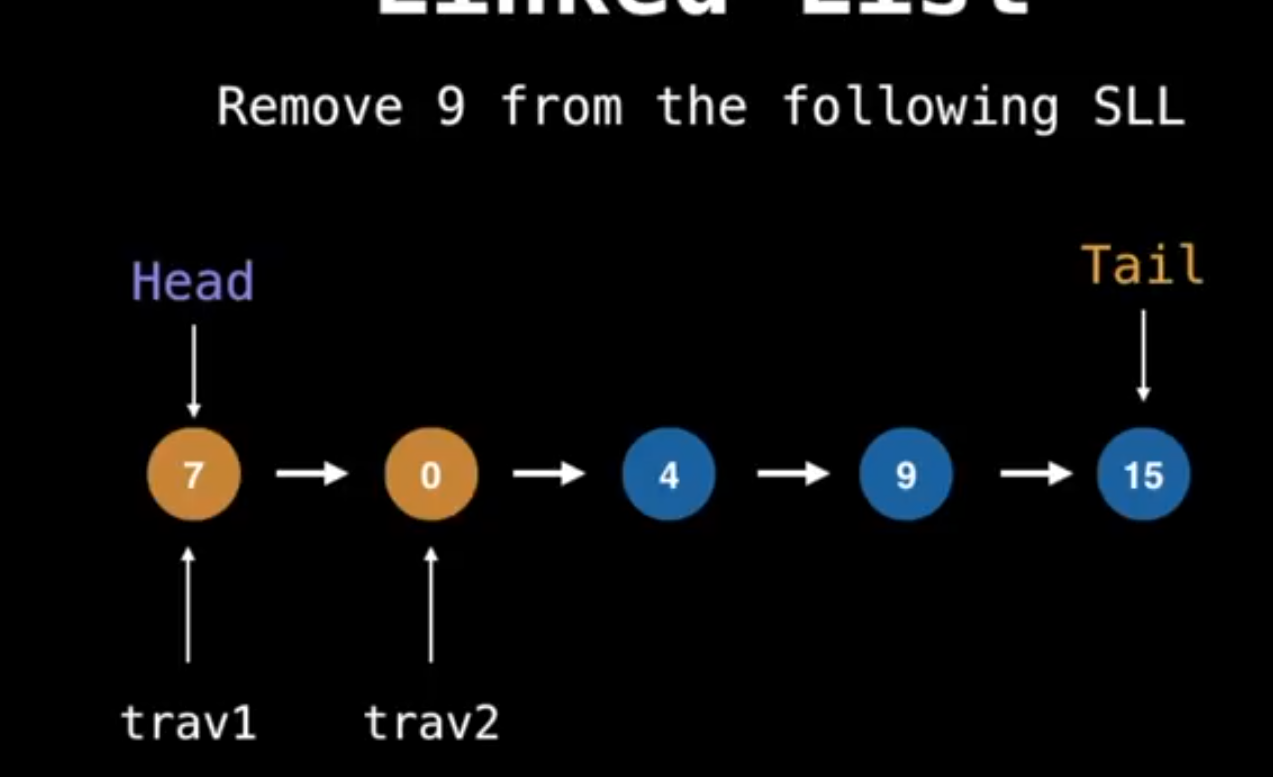
Changing two nodes in insertion: Change 4 pointers

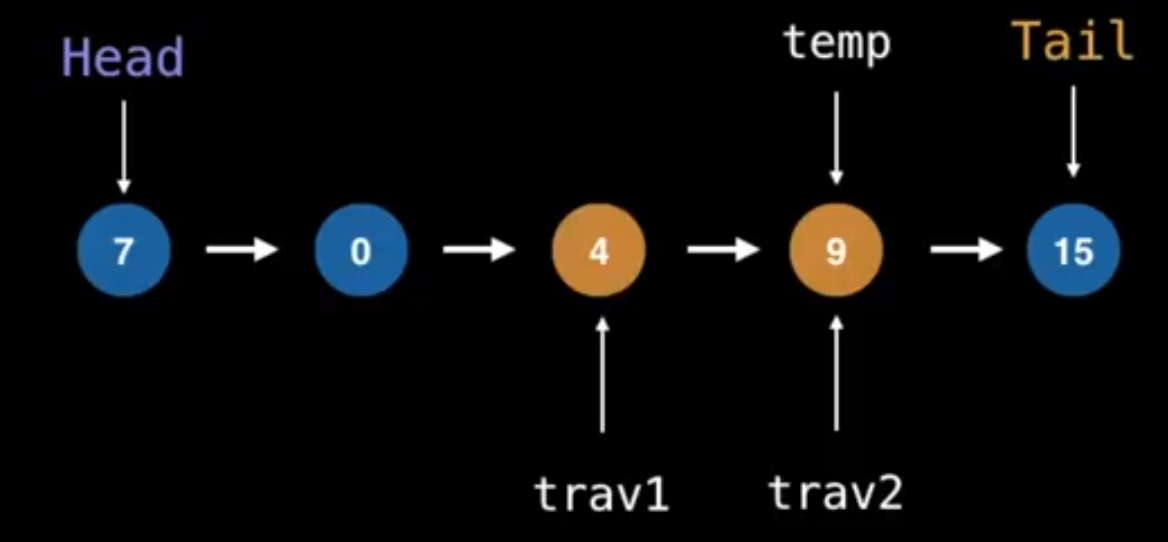


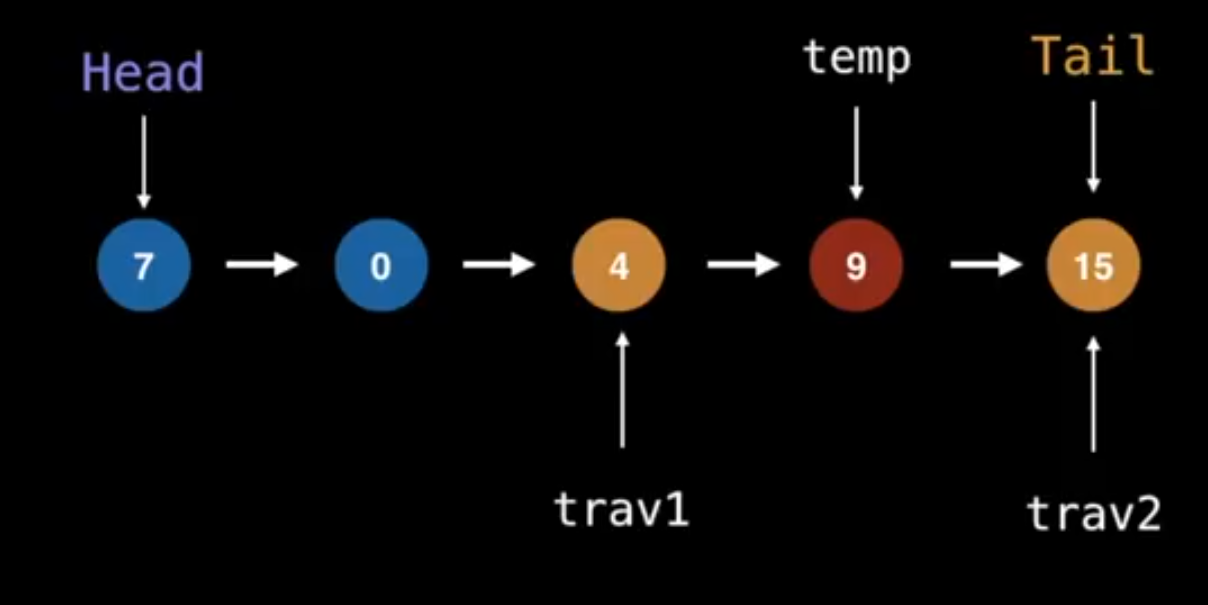


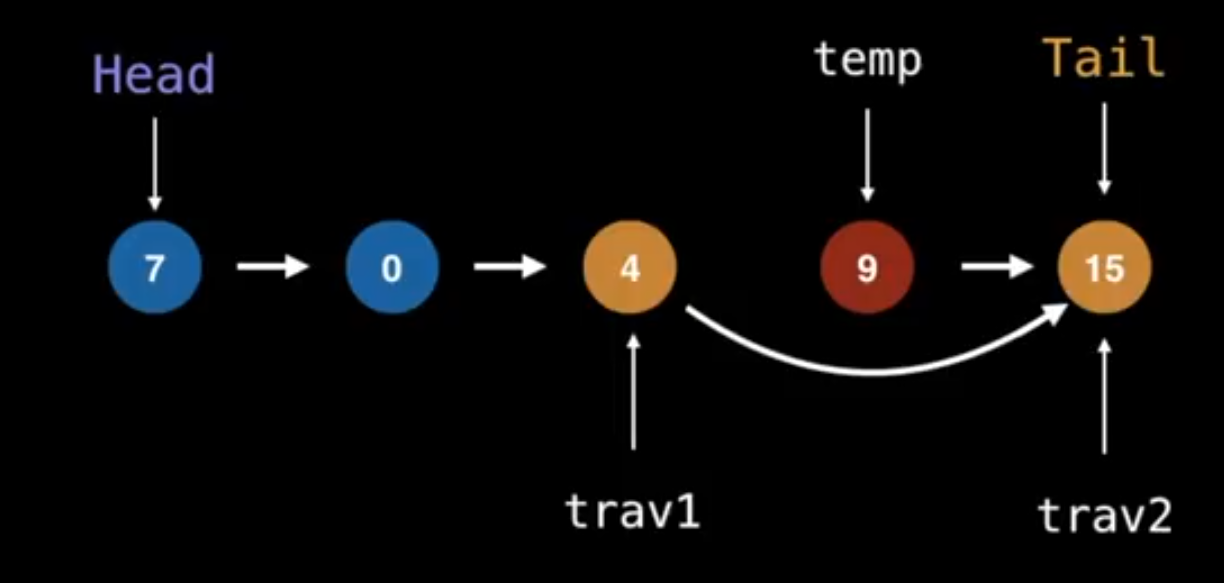


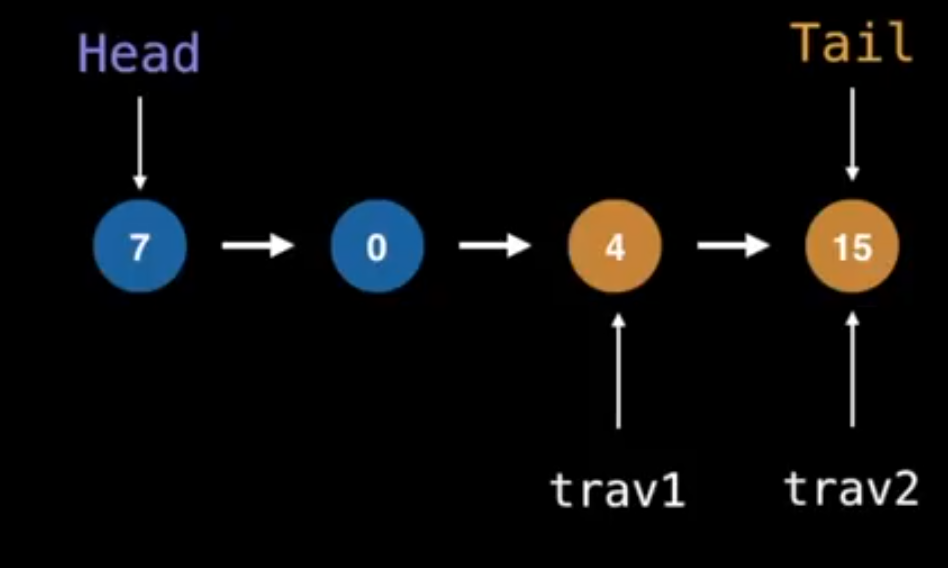
Removing elements in singly linked list:



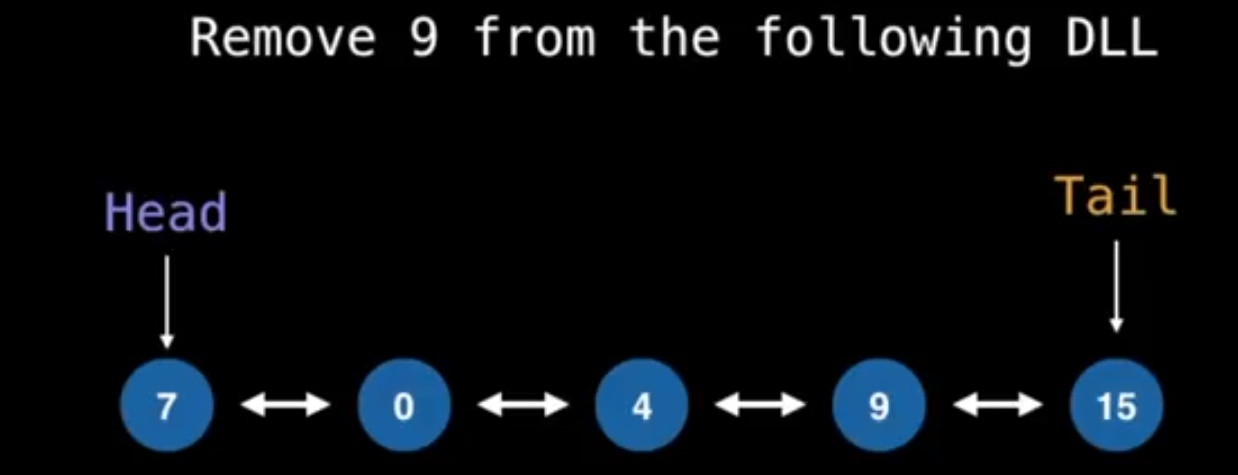


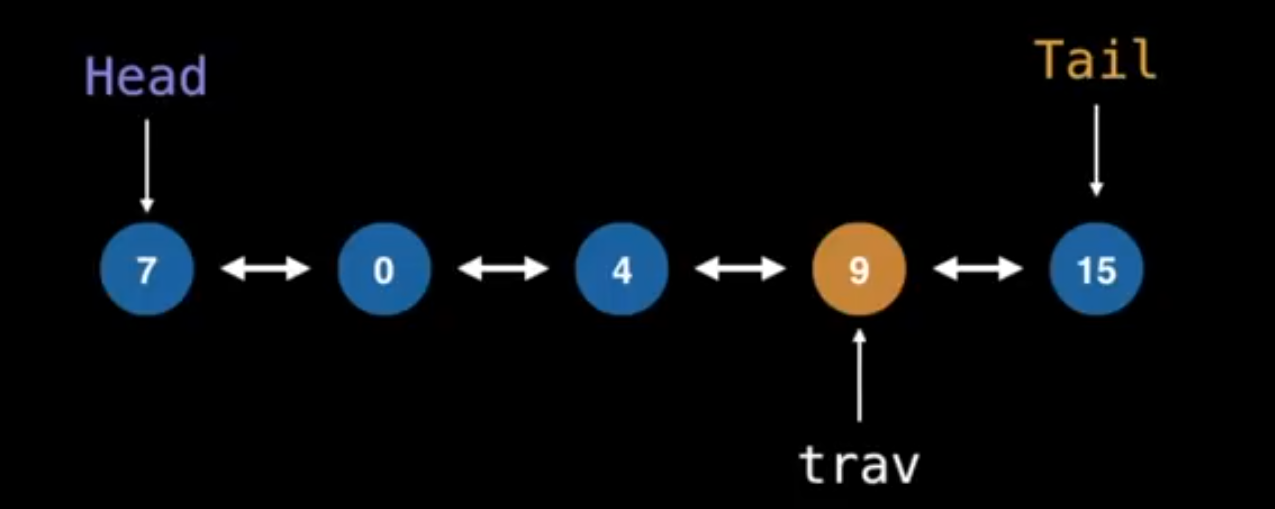


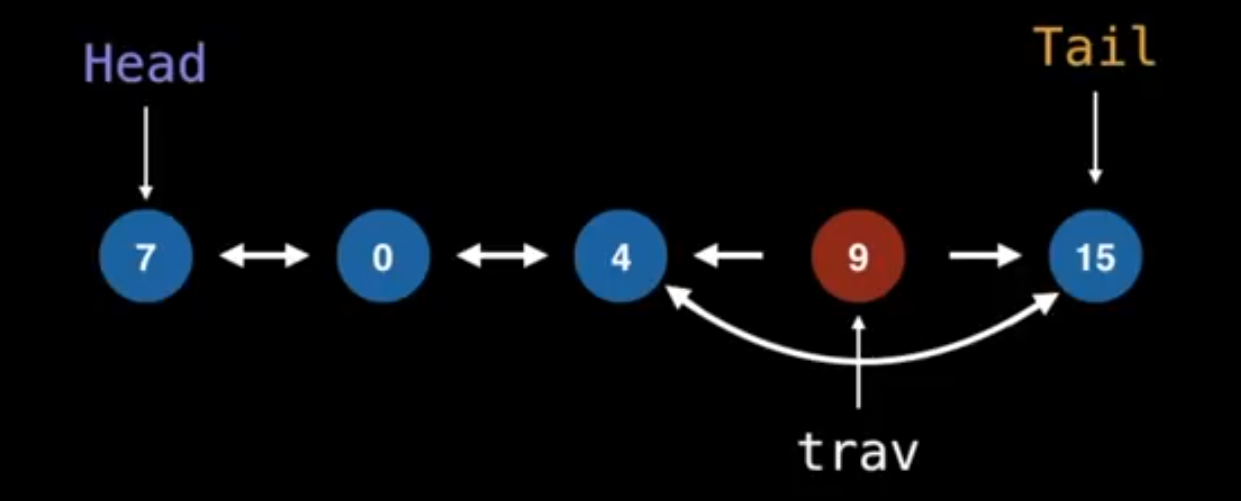




Removing nodes from doubly linked list







Time complexity



