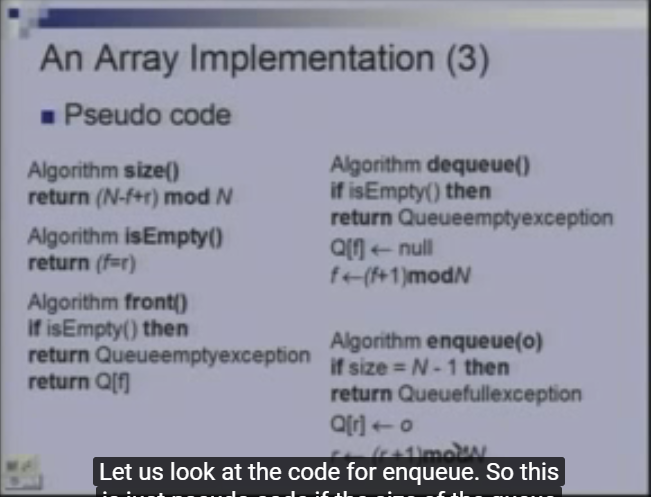


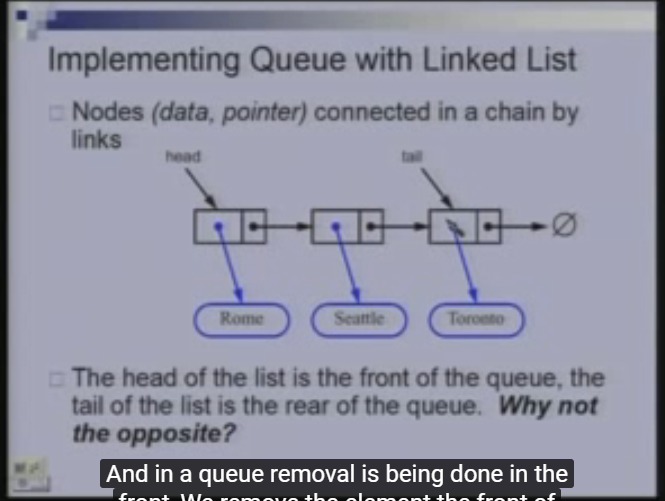
Note:

1. To remove f=r ambiguity we’ll never end N elements in queue. If no of elements become N-1 queue should be declared full.



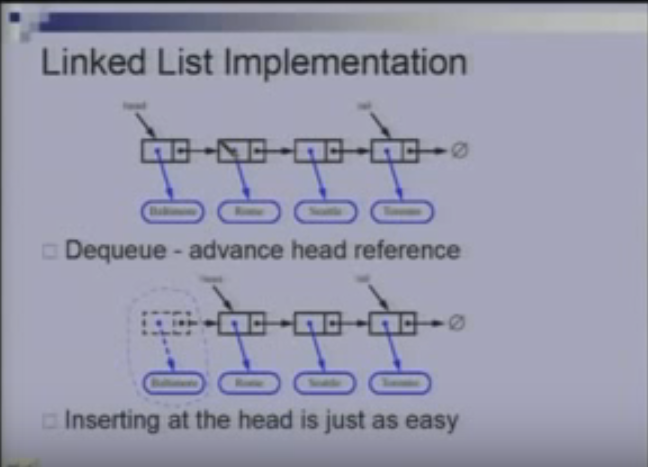
Note:

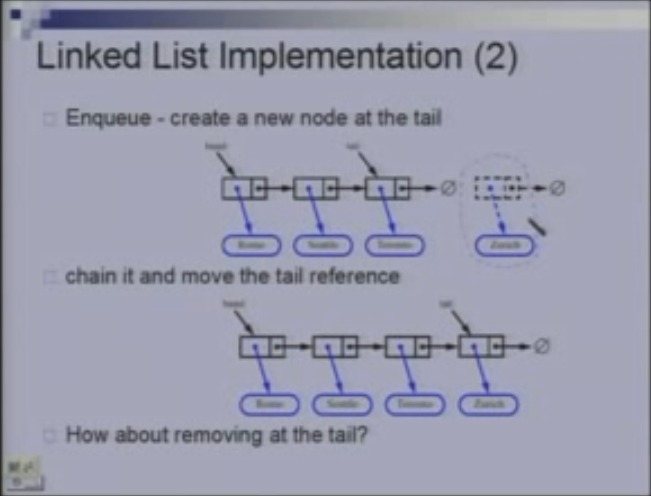
1. N-f+r >= 0, since -N <r – f < 2N

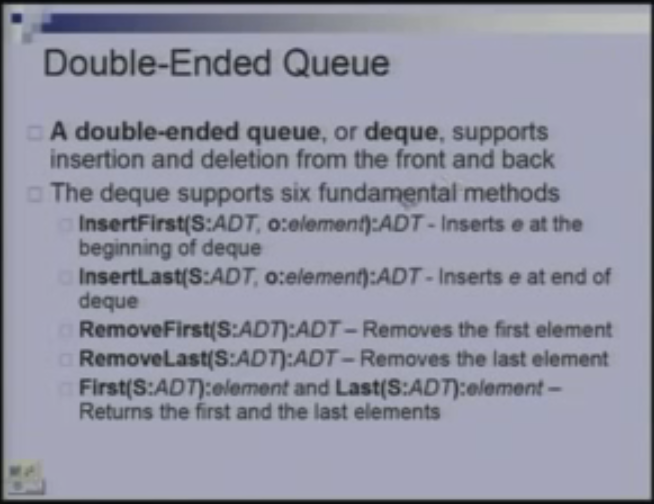


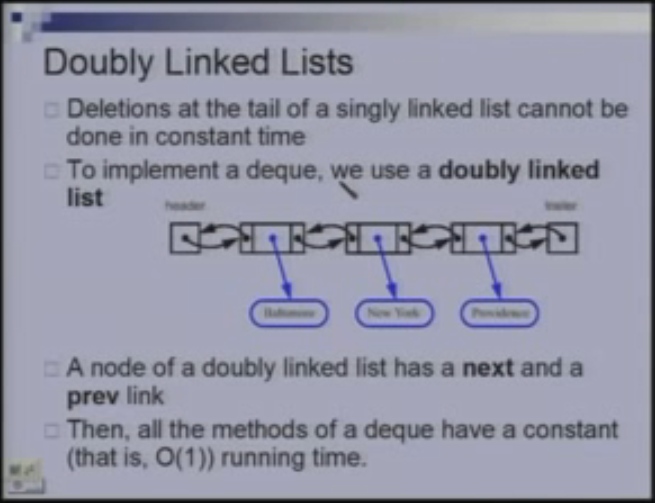
Notes:

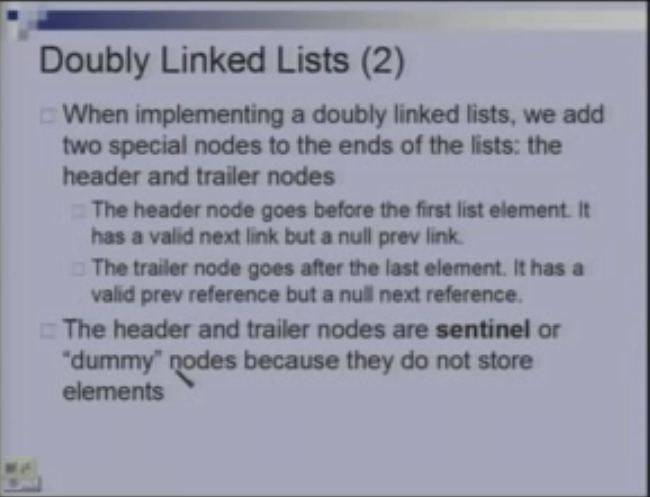
1. Head of the list is front because we can directly remove it. But to remove from tail we need to iterate through the list for singly linked list.

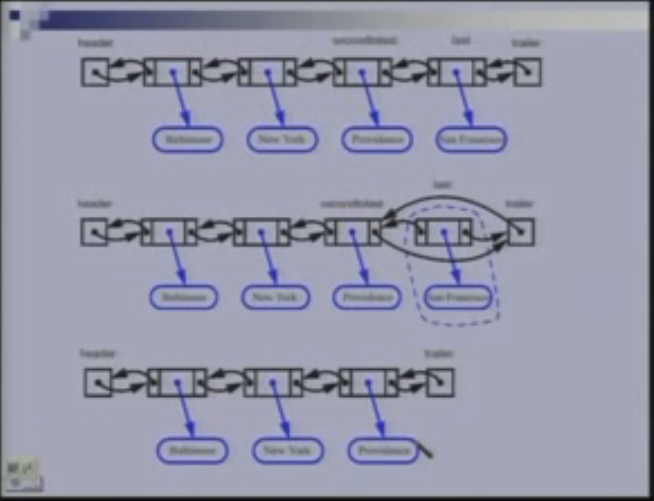


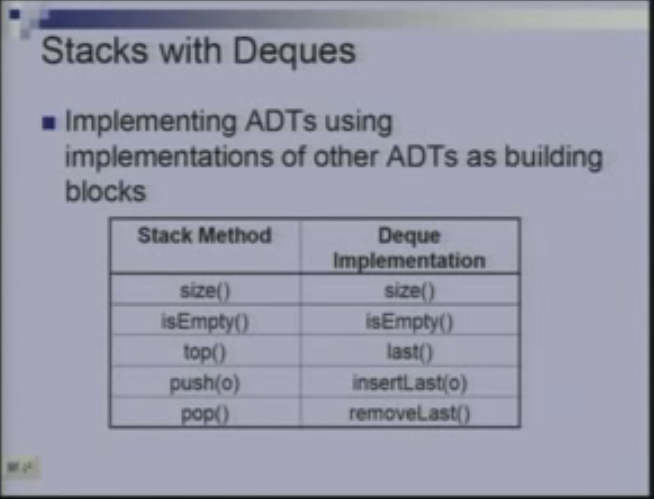


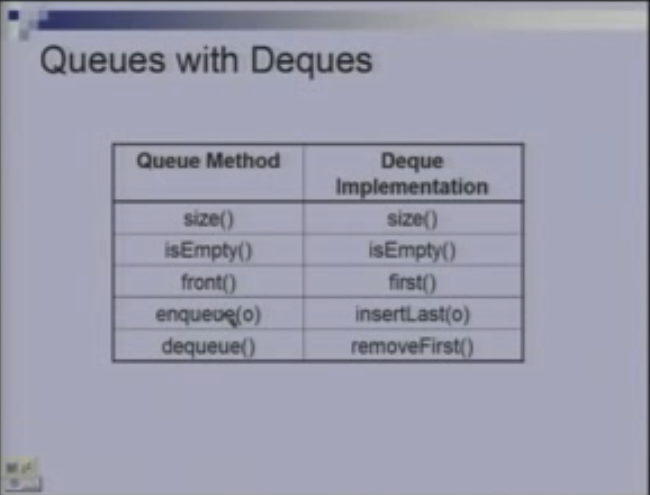


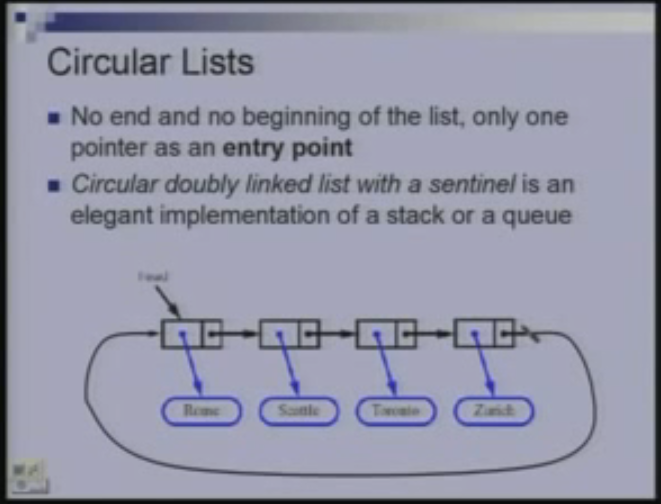












Notes:

1. To enter an element at rear copy head element in a new node and point head to it. Enter new element in previous head.
2. To remove an element at head copy the head next node in head then delete head next element.