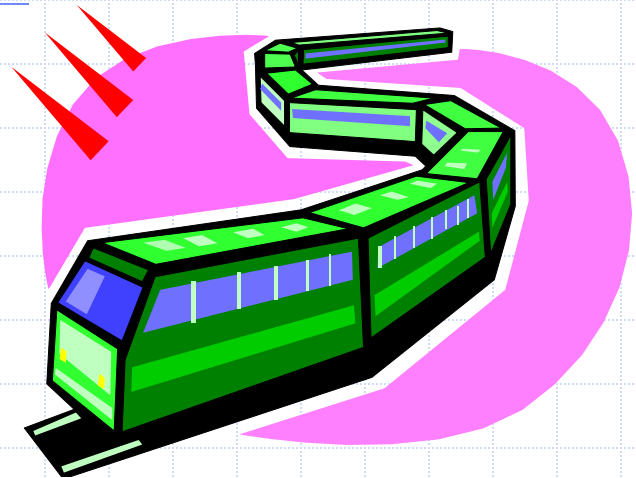


Presentation for use with the textbook **Data Structures and Algorithms in Java, 6th edition**, by M. T. Goodrich, R. Tamassia, and M. H. Goldwasser, Wiley, 2014

Doubly Linked Lists



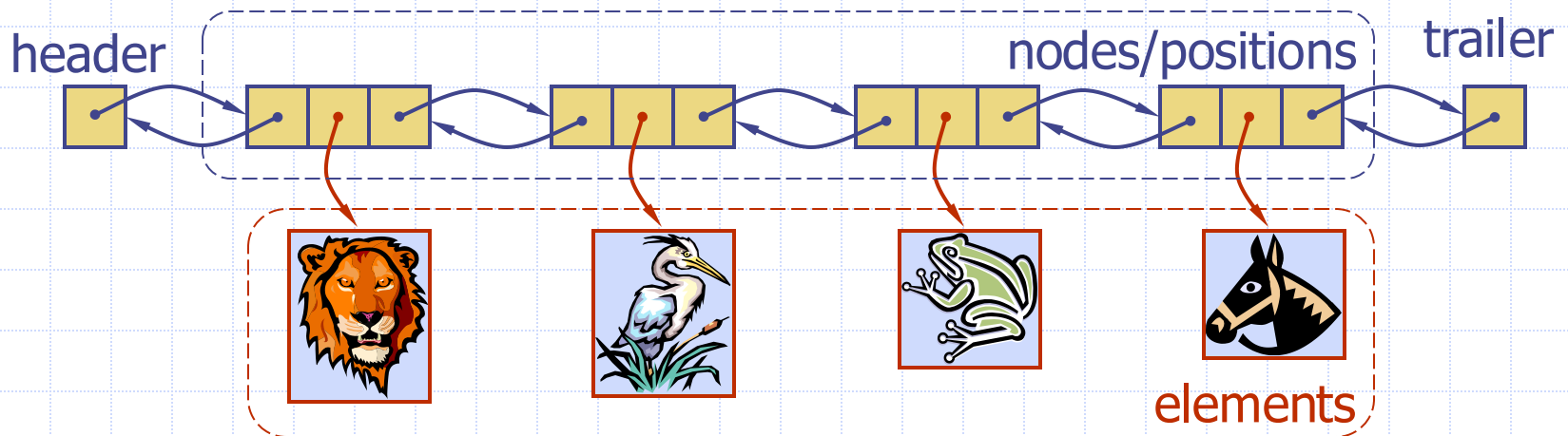
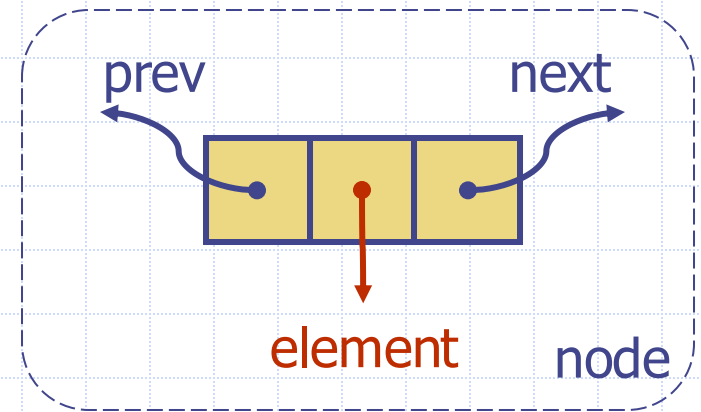
Reading

M. T. Goodrich, R. Tamassia and M. H. Goldwasser,
Data Structures and Algorithms in Java, 6th Edition,
2014.

- Chapter 3. Arrays and Linked Lists

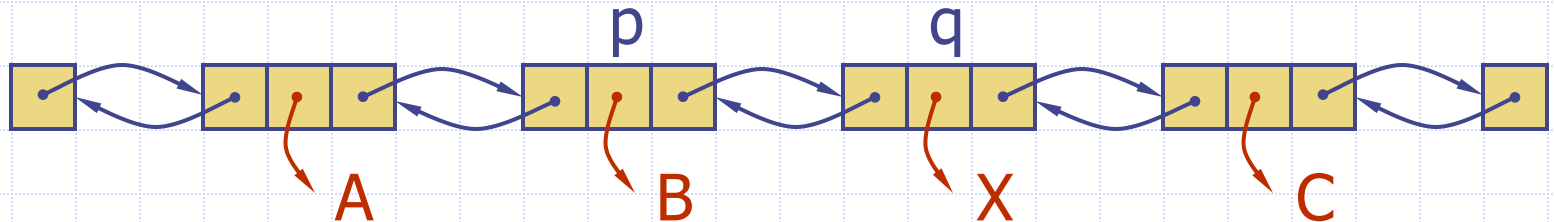
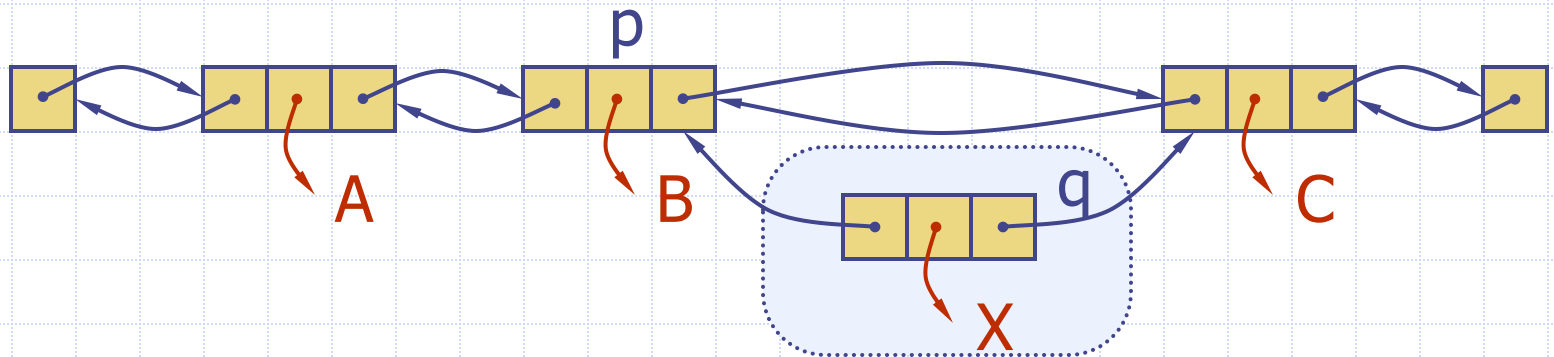
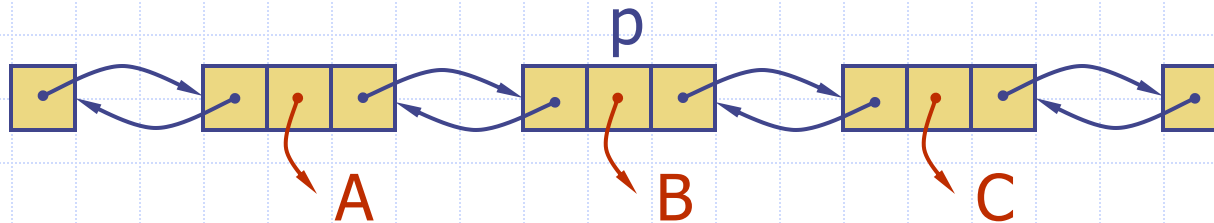
Doubly Linked List

- ❑ A doubly linked list can be traversed forward and backward
- ❑ Nodes store:
 - element
 - link to the previous node
 - link to the next node
- ❑ Special trailer and header nodes



Insertion

- Insert a new node, q , between p and its successor.



Deletion

- Remove a node, p , from a doubly linked list.

