Linked List (IV): Circular Singly Linked List

CSCD 300 – Data Structures

Eastern Washington University

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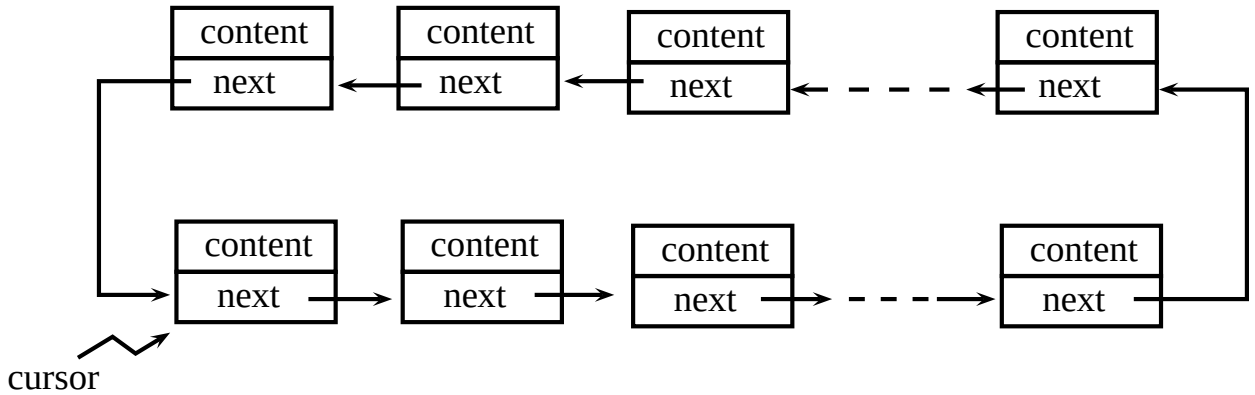
Goal

In today's lecture, we will demonstrate the construction and other various operations of another type of linked list—Circular Singly Linked List, where every node has a `next` link pointing to the next neighbor node and all the nodes in the list are linked together into a one-direction circle.

To gain the access of the nodes in the circular singly linked list, a reference often called `cursor` pointing to a node in the circular list is always maintained. By starting from the node referenced by `cursor`, we are able to travel around the circular singly linked list, round by round, repeatedly.



The teaching of today's lecture will be mainly using the attached Java source code to demonstrate the construction and various operations of an example circular singly linked list, which of course can also be implemented using other programming languages such as `C` and `C++`.