

Assignment 3 Linked Lists & Trees



Assignment 3b

- void rotate(char, int k); // Rotate elements by k position to the right if char is 'R' or to the left if char is 'L'. The rotation should be performed in a circular way. (Hint: You don't need to rotate the list element by element.)
- List<Type> subList(int, int); // Return a portion of this list between(inclusively) the first and the second arguments(node indexes).
- Reimplement the queuestack of assignment 2 but using a doubly linked list instead of an array. Test your class properly.

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Assignment 3d

4. A linked binary tree is a binary tree where nodes having the same value are linked into a list with a header. Headers are linked into a list as well. (See the example on next page.) Write a C++ template class to implement such a data structure. Test your class properly. Can you think of any application(s) where the linked binary tree is useful? List the application(s) and explain it in the comments of your code.

Due date: Dec 14, 2023

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