Practice #7

Lists

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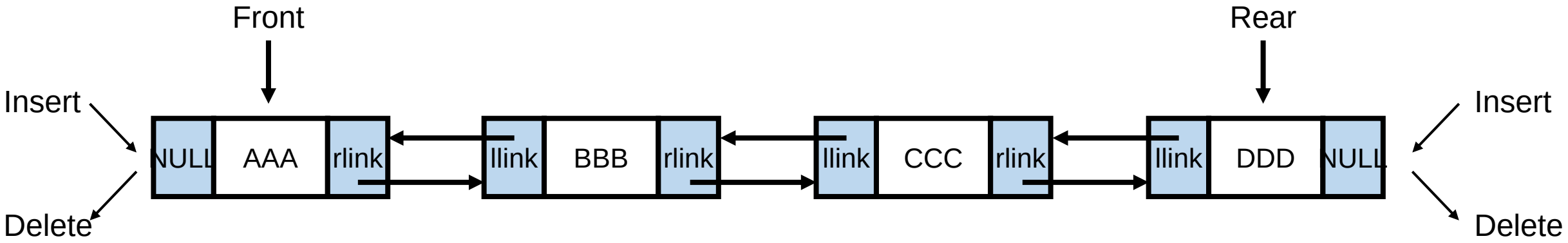
Practice #7 TO-DO List

To-Do	Submission	Notes
Deque using Doubly Linked List	Screenshot and source code (Deque.cpp)	p.37-40, Chapter 4

- Upload your screenshot and source codes on LMS by 11pm on 4/13 (Wed).
  - All your screenshots should be merged in one pdf file, screenshot.pdf.
  - Your pdf and all source codes should be compressed into zip file.
- File name: practice07_Your Student ID_Name.zip (only zip, not pdf, docx, c, etc)
  - ex) practice07_20400022_고윤민.zip

Deque

- Implement a deque class using doubly linked list
  - Skeleton code: Deque.cpp (Dequeclient.cpp: no need to change)
  - Refer to p.37-40, Chapter 4
  - Deque is a double-ended queue (produnced deck) is a linear list in which additions and deletions may be made at either end (front and rear).



Deque

- Implement a deque class using doubly linked list
  - Implement following member functions
    - InsertFront(): Insert a new node at front end
    - InsertRear(): Insert a new node at rear end
    - DeleteFront(): Delete a node at front end
    - DeleteRear(): Delete a node at rear end
    - GetLength(): Return the number of nodes in deque
    - IsEmpty(): Return true if deque is empty. Otherwise return false.
    - PrintFromFront(): Print all data start from front end
      - ex) AAA BBB CCC DDD
    - PrintFromRear(): Print all data start from rear end
      - ex) DDD CCC BBB AAA

Deque

- Expected results

```
PS C:\ds\practice07> .\Dequeclient.exe
Print from Front(size=5): 222 111 AAA BBB CCC
Print from Rear(size=5): CCC BBB AAA 111 222
Print from Front(size=2): 111 AAA
Print from Rear(size=4): 333 DDD AAA 111
```