Practice #6 Lists

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Practice #6 TO-DO List

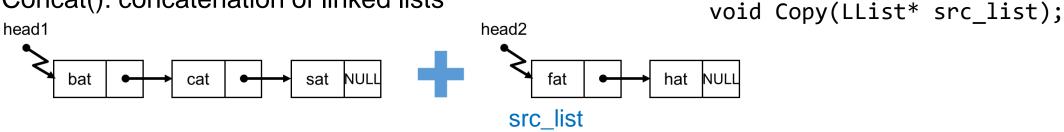
To-Do	Submission	Notes
Singly Linked List	Screenshot and source code (LList.cpp)	p.6-20, Chapter 4
Linked Stack	Screenshot and source code (LStack.cpp)	p.23-24, Chapter 4
Linked Queue	Screenshot and source code (LQueue.cpp)	p.25-26, Chapter 4

- Upload your screenshot and source codes on LMS by 11pm on 4/7 (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: practice06_Your Student ID_Name.zip (only zip, not pdf, docx, c, etc)
 - ex) practice06_20400022_고윤민.zip

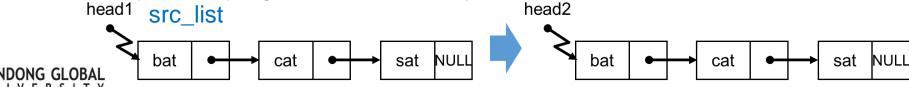


Singly Linked List

- Implement a singly linked list class
 - Skeleton code: LList.cpp (LListclient.cpp: no need to change)
 - Refer to p.6-20, Chapter 4
 - Define LList class and implement following member functions
 - GetBytData(), GetByIndex(), Insert(), InsertAfterNode(), Delete(), Print(), IsEmpty()
 - Above functions have been already introduced in Chapter 4.
 - GetLength(): get the number of elements in list
 - Concat(): concatenation of linked lists



Copy(): copying linked lists (copy all nodes of src_list)



GetLength();

void Concat(LList* src_list);

Singly Linked List

Expected results

```
PS C:\ds\practice06> .\LListclient.exe
List:
List: bat cat sat vat
GetByData: cat

List: bat cat mat sat vat
List: vat sat mat cat bat
GetByIndex: mat

List: vat sat mat bat
List: 333 222 111
List's length: 7
List2's length: 3
List: vat sat mat bat 333 222 111
List: vat sat mat bat 333 222 111
List: vat sat mat bat 333 222 111
```



Linked Stack

- Implement a linked stack class
 - Skeleton code: LStack.cpp (LStackclient.cpp: no need to change)
 - Refer to p.23-24, Chapter 4
 - Define LStack class and implement following member functions
 - LStack(), ~LStack(), Push(), Pop(), Print(), IsEmpty()
 - Push() and Pop() have been already introduced in Chapter 4.
 - You can also implement other functions if you need



Linked Stack

Expected results

```
PS C:\ds\practice06> .\LStackclient.exe
Stack: Data_Structures University Global Handong World Hello
Pop: Data_Structures
Pop: University
Stack: Global Handong World Hello
```



Linked Queue

- Implement a linked queue class
 - Skeleton code: LQueue.cpp (LQueueclient.cpp: no need to change)
 - Refer to p.25-26, Chapter 4
 - Define LQueue class and implement following member functions
 - LQueue(), ~LQueue(), AddQ(), DeleteQ (), Print(), IsEmpty()
 - Push() and Pop() have been already introduced in Chapter 4.
 - You can also implement other functions if you need



Linked Queue

Expected results

```
PS C:\ds\practice06> .\LQueueclient.exe
Queue: Hello World Handong Global University
Delete: 1, Hello
Delete: 2, World
Queue: Handong Global University Data Structure Fun!!!!
```

