

Đã bắt đầu vào	Thứ hai, 2 Tháng mười 2023, 2:41 PM
lúc	
Tình trạng	Đã hoàn thành
Hoàn thành vào	Thứ hai, 2 Tháng mười 2023, 2:49 PM
lúc	
Thời gian thực hiện	8 phút 5 giây
Điểm	11,00/11,00
Điểm	10,00 của 10,00 (100%)

Câu hỏi**1**

Chính xác

Điểm 1,00 của
1,00

Class `LLNode` is used to store a node in a singly linked list, described on the following:

```
class LLNode {
public:
    int val;
    LLNode* next;
    LLNode();
    LLNode(int val, LLNode* next);
}
```

Where `val` is the value of node, `next` is the pointer to the next node.

Request: Implement function:

```
LLNode* addLinkedList(LLNode* l0, LLNode* l1);
```

Where `l0`, `l1` are two linked lists represented positive integers, each node is a digit, the head is the least significant digit (the value of each node is between 0 and 9, the length of each linked list is between 0 and 100000). This function returns the linked list representing the sum of the two integers.

Example:

Given `l0 = [2, 3]` (representing 32) and `l1 = [1, 8]` (representing 81). The result would be `l0 = [3, 1, 1]` (representing 32 + 113).

Note:

In this exercise, the libraries `iostream`, `string`, `cstring`, `climits`, `utility`, `vector`, `list`, `stack`, `queue`, `map`, `unordered_map`, `set`, `unordered_set`, `functional`, `algorithm` has been included and `namespace std` are used. You can write helper functions and classes. Importing other libraries is allowed, but not encouraged, and may result in unexpected errors.

For example:

Test	Result
<pre>int arr1[] = {2, 9}; int arr2[] = {0, 5}; LLNode* head1 = LLNode::createWithIterators(arr1, arr1 + sizeof(arr1) / sizeof(int)); LLNode* head2 = LLNode::createWithIterators(arr2, arr2 + sizeof(arr2) / sizeof(int)); LLNode* newhead = addLinkedList(head1, head2); LLNode::printList(newhead); head1->clear(); head2->clear(); newhead->clear();</pre>	[2, 4, 1]

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)

Reset answer

```
1 LLNode* addLinkedList(LLNode* l0, LLNode* l1) {  
2     int tong = 0;  
3     LLNode* result = NULL;  
4     LLNode* curr = NULL;  
5  
6     while(l0 != NULL || l1 != NULL || tong != 0) {  
7         int sum = tong;  
8  
9         if(l0 != NULL) {  
10             sum += l0->val;  
11             l0 = l0->next;  
12         }  
13  
14         if(l1 != NULL) {  
15             sum += l1->val;  
16             l1 = l1->next;  
17         }  
18  
19         int val = sum % 10;  
20         tong = sum / 10;  
21  
22         if(result == NULL) {  
23             result = new LLNode(val, NULL);  
24             curr = result;  
25         } else {  
26             curr->next = new LLNode(val, NULL);  
27             curr = curr->next;  
28         }  
29     }  
30  
31     return result;  
32 }
```

	Test	Expected	Got
✓	<pre>int arr1[] = {2, 9}; int arr2[] = {0, 5}; LLNode* head1 = LLNode::createWithIterators(arr1, arr1 + sizeof(arr1) / sizeof(int)); LLNode* head2 = LLNode::createWithIterators(arr2, arr2 + sizeof(arr2) / sizeof(int)); LLNode* newhead = addLinkedList(head1, head2); LLNode::printList(newhead); head1->clear(); head2->clear(); newhead->clear();</pre>	[2, 4, 1]	[2, 4, 1]

Passed all tests! ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 2

Chính xác
Điểm 1,00 của
1,00

Class LinkedList is used to represent single linked list, described as the following:

```
class LinkedList {  
public:  
    class Node;  
private:  
    Node* head;  
    Node* tail;  
    int size;  
public:  
    class Node {  
        private:  
            int value;  
            Node* next;  
        friend class LinkedList;  
    public:  
        Node() {  
            this->next = NULL;  
        }  
        Node(Node* node) {  
            this->value = node->value;  
            this->next = node->next;  
        }  
        Node(int value, Node* next = NULL) {  
            this->value = value;  
            this->next = next;  
        }  
    };  
    LinkedList(): head(NULL), tail(NULL), size(0) {};  
    void partition(int k);  
};
```

In this class; head, tail and size are the pointers of the first element, the last element and size of linked list.

Request: Implement function

```
void LinkedList::partition(int k);
```

To rearrange elements in this linked list by this way: split all elements of this linked list to 3 groups include: group I (the value of each element is smaller than k), group II (the value of each element is equal to k) and group III (the value of each element larger than k); after that, move group I to the head of linked list, group II is after group I and group III is after group II. Note that the orders of the elements of each group are unchanged.

Example:

- The given linked list: 10->55->45->42->50
- k=45

In this case, group I includes elements with value 10 and 42, group II includes elements with 45 and group III includes elements with value 55 and 50. Rearrange by above way, this linked list will become 10->42->45->55->50 (the orders of the elements in each group is unchanged: 10 before 42 and 55 before 50).

Note: In this exercise, libraries `iostream`, `sstream` and using namespace `std`; have been used. You can add other functions for your answer, but you are not allowed to add other libraries.

For example:

Test	Result
<pre>LinkedList* l1 = new LinkedList(); l1->add(20); l1->add(30); l1->add(10); l1->add(60); l1->add(40); l1->add(45); l1- >add(55); l1->partition(45); cout << l1->toString() << "\n";</pre>	[20,30,10,40,45,60,

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)

Reset answer

```

1 void LinkedList::partition(int k) {
2     Node* less_head = NULL;
3     Node* less_tail = NULL;
4     Node* equal_head = NULL;
5     Node* equal_tail = NULL;
6     Node* greater_head = NULL;
7     Node* greater_tail = NULL;
8
9     Node* current = head;
10    while (current != NULL) {
11        if (current->value < k) {
12            if (less_head == NULL) {
```

```
13         less_head = current;
14         less_tail = current;
15     } else {
16         less_tail->next = current;
17         less_tail = current;
18     }
19 } else if (current->value == k) {
20     if (equal_head == NULL) {
21         equal_head = current;
22         equal_tail = current;
23     } else {
24         equal_tail->next = current;
25         equal_tail = current;
26     }
27 } else {
28     if (greater_head == NULL) {
29         greater_head = current;
30         greater_tail = current;
31     } else {
32         greater_tail->next = current;
33         greater_tail = current;
34     }
35 }
36     current = current->next;
37 }
38
39 if (less_head != NULL) {
40     head = less_head;
41     if (equal_head != NULL) {
42         less_tail->next = equal_head;
43         if (greater_head != NULL) {
44             equal_tail->next = greater_head;
45             greater_tail->next = NULL;
46             tail = greater_tail;
47         } else {
48             equal_tail->next = NULL;
49             tail = equal_tail;
50         }
51     } else {
52         if (greater_head != NULL) {
53             less_tail->next = greater_head;
54             greater_tail->next = NULL;
55             tail = greater_tail;
56     } else {
57         less_tail->next = NULL;
58         tail = less_tail;
59     }
60 }
```

```
55
56     }
57 }
58 } else {
59     if (equal_head != NULL) {
60         head = equal_head;
61         if (greater_head != NULL) {
62             greater_head->next = greater_head;
63             greater_head = NULL;
64             tail = greater_head;
65         } else {
66             equal_head->next = NULL;
67             tail = equal_head;
68         }
69     } else {
70         head = greater_head;
71         tail = greater_head;
72     }
73 }
74 }
```

	Test	Expected	Got
✓	LinkedList* l1 = new LinkedList(); l1->add(20); l1->add(30); l1->add(10); l1->add(60); l1->add(40); l1->add(45); l1->add(55); l1->partition(45); cout << l1->toString() << "\n";	[20,30,10,40,45,60,55]	[20,30,10,40,45,60,55]

Passed all tests! ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi

3

Chính xác

Điểm 1,00 của
1,00

Cho node root của một danh sách liên kết đơn, hiện thực hàm sau đây:

```
void reduceDuplicate(Node* root);
```

để giảm các phần tử trùng lặp liên tiếp trong danh sách. Nếu có các phần tử liên tiếp giống nhau, ta chỉ giữ lại 1 phần tử.

Ví dụ, ta có 1 danh sách 122234452, sau khi thực hiện hàm reduceDuplicate ta thu được danh sách 123452. (số 2 cuối cùng giữ nguyên do nó không liên tiếp với dãy 222 phía trước)

Lưu ý: Các bạn có thể include thêm thư viện nếu cần thiết

Cấu trúc của một node được cho bên dưới. Các bạn chỉ cần viết nội dung hàm reduceDuplicate, các cấu trúc khác đã được import sẵn

```
class Node
{
    int data;
    Node* next;
public:
    Node(): data(0), next(nullptr){}
    Node(int data, Node* next)
    {
        this->data = data;
        this->next = next;
    }
    int getData()
    {
        return this->data;
    }
    void setData(int data)
    {
        this->data = data;
    }
    Node* getNext()
    {
        return this->next;
    }
    void setNext(Node* next)
    {
        this->next = next;
    }
};
```

For example:

Test	Result
Node* node1 = new Node(1, nullptr); Node* node2 = new Node(1, node1); Node* node3 = new Node(0, node2); printList(node3); reduceDuplicate(node3); printList(node3);	HEAD → 0 → 1 → 1 → NULL HEAD → 0 → 1 → NULL

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)

Reset answer

```
1 void reduceDuplicate(Node* root)
2 {
3     if (root == NULL){
4         return;
5     }
6     Node* cur = root;
7     while (cur->getNext() != NULL){
8         if (cur->getData() == cur->getNext()->getData()){
9             Node* tmp = cur->getNext();
10            cur->setNext(tmp->getNext());
11            delete tmp;
12        }
13        else {
14            cur = cur->getNext();
15        }
16    }
17 }
```

	Test	Expected	Got	
✓	<pre>Node* node1 = new Node(1, nullptr); Node* node2 = new Node(1, node1); Node* node3 = new Node(0, node2); printList(node3); reduceDuplicate(node3); printList(node3);</pre>	<pre>HEAD -> 0 -> 1 -> 1 -> NULL HEAD -> 0 -> 1 -> NULL</pre>	<pre>HEAD -> 0 -> 1 -> 1 -> NULL HEAD -> 0 -> 1 -> NULL</pre>	✓

Passed all tests! ✓

Chỉnh xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 4

Chính xác

Điểm 1,00 của
1,00

Implement methods **add**, **size** in template class **SLinkedList** (which implements List ADT) representing the singly linked list with type T with the initialized frame. The description of each method is given in the code.

```
template <class T>
class SLinkedList {
public:
    class Node; // Forward declaration
protected:
    Node* head;
    Node* tail;
    int count;
public:
    SLinkedList();
    ~SLinkedList();
    void add(T e);
    void add(int index, T e);
    int size();
public:
    class Node {
private:
    T data;
    Node* next;
    friend class SLinkedList<T>;
public:
    Node() {
        next = 0;
    }
    Node(Node* next) {
        this->next = next;
    }
    Node(T data, Node* next) {
        this->data = data;
        this->next = next;
    }
    };
};
```

For example:

Test	Result
<pre>SLinkedList<int> list; int size = 10; for(int index = 0; index < size; index++){ list.add(index); } cout << list.toString();</pre>	[0,1,2,3,4,5,6,7,8,9]
<pre>SLinkedList<int> list; int size = 10; for(int index = 0; index < size; index++){ list.add(0, index); } cout << list.toString();</pre>	[9,8,7,6,5,4,3,2,1,0]

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)

[Reset answer](#)

```

1 template <class T>
2 void SLinkedList<T>::add(const T& e) {
3     /* Insert an element into the end of the list. */
4     Node* newNode = new Node (e, NULL);
5     if (head == NULL){
6         head = newNode;
7         tail = newNode;
8     }
9     else {
10        tail->next = newNode;
11        tail = newNode;
12    }
13    count++;
14 }
15
16 template<class T>
17 void SLinkedList<T>::add(int index, const T& e) {
18     /* Insert an element into the list at given index. */
19     Node* newNode = new Node(e, NULL);
20     if (index == 0){
```

```
21     newNode->next = head;
22     head = newNode;
23     if (tail == NULL){
24         tail = newNode;
25     }
26 }
27 else {
28     Node* tmp = head;
29     for (int i = 0; i < index - 1; i++){
30         tmp = tmp->next;
31     }
32     newNode->next = tmp->next;
33     tmp->next = newNode;
34     if (newNode->next == NULL){
35         tail = newNode;
36     }
37 }
38 count++;
39 }
40 }
41
42 template<class T>
43 int SLinkedList<T>::size() {
44     /* Return the length (size) of list */
45     return count;
46 }
47 }
```

	Test	Expected	Got	
✓	<pre>SLinkedList<int> list; int size = 10; for(int index = 0; index < size; index++){ list.add(index); } cout << list.toString();</pre>	[0,1,2,3,4,5,6,7,8,9]	[0,1,2,3,4,5,6,7,8,9]	✓

Passed all tests! ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 5

Chính xác

Điểm 1,00 của
1,00

Implement methods **get**, **set**, **empty**, **indexOf**, **contains** in template class **SLinkedList** (**which implements List ADT**) representing the singly linked list with type T with the initialized frame. The description of each method is given in the code.

```
template <class T>
class SLinkedList {
public:
    class Node; // Forward declaration
protected:
    Node* head;
    Node* tail;
    int count;
public:
    SLinkedList(): head(NULL), tail(NULL), count(0);
    ~SLinkedList() { };
    void add(T e);
    void add(int index, T e);
    int size();
    bool empty();
    T get(int index);
    void set(int index, T e);
    int indexOf(T item);
    bool contains(T item);
public:
    class Node {
private:
    T data;
    Node* next;
    friend class SLinkedList<T>;
public:
    Node() {
        next = 0;
    }
    Node(Node* next) {
        this->next = next;
    }
    Node(T data, Node* next = NULL) {
        this->data = data;
        this->next = next;
    }
    };
};
```

For example:

Test	Result
<pre>SLinkedList<int> list; int values[] = {10, 15, 2, 6, 4, 7, 40, 8}; int index[] = {0, 0, 1, 3, 2, 3, 5, 0}; int expvalues[] = {8, 15, 2, 4, 7, 10, 40, 6}; for (int idx = 0; idx < 8; idx++){ list.add(index[idx], values[idx]); } assert(list.size() == 8); for (int idx = 0; idx < 8; idx++){ assert(list.get(idx) == expvalues[idx]); } cout << list.toString();</pre>	[8,15,2,4,7,10,40,6]
<pre>SLinkedList<int> list; assert(list.empty() == true); cout << list.toString();</pre>	[]

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)

Reset answer

```

1 template <class T>
2 T SLinkedList<T>::get(int index) {
3     if (index < 0 || index >= count) {
4         throw std::out_of_range("Index out of range");
5     }
6
7     Node* current = head;
8     for (int i = 0; i < index; i++) {
9         current = current->next;
10    }
11
12    return current->data;
13 }
14
15 template <class T>
```

```
15 void SLinkedList<T>::set(int index, const T& e) {
16     if (index < 0 || index >= count) {
17         throw std::out_of_range("Index out of range");
18     }
19
20     Node* current = head;
21     for (int i = 0; i < index; i++) {
22         current = current->next;
23     }
24
25     current->data = e;
26 }
27
28
29 template<class T>
30 bool SLinkedList<T>::empty() {
31     return count == 0;
32 }
33
34 template<class T>
35 int SLinkedList<T>::indexOf(const T& item) {
36     Node* current = head;
37     for (int i = 0; i < count; i++) {
38         if (current->data == item) {
39             return i;
40         }
41         current = current->next;
42     }
43
44     return -1;
45 }
46
47 template<class T>
48 bool SLinkedList<T>::contains(const T& item) {
49     return indexOf(item) != -1;
50 }
51 }
```

	Test	Expected	Got	
✓	<pre>SLinkedList<int> list; int values[] = {10, 15, 2, 6, 4, 7, 40, 8}; int index[] = {0, 0, 1, 3, 2, 3, 5, 0}; int expvalues[] = {8, 15, 2, 4, 7, 10, 40, 6}; for (int idx = 0; idx < 8; idx++){ list.add(index[idx], values[idx]); } assert(list.size() == 8); for (int idx = 0; idx < 8; idx++){ assert(list.get(idx) == expvalues[idx]); } cout << list.toString();</pre>	[8,15,2,4,7,10,40,6]	[8,15,2,4,7,10,40,6]	✓
✓	<pre>SLinkedList<int> list; assert(list.empty() == true); cout << list.toString();</pre>	[]	[]	✓

Passed all tests! ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 6

Chính xác

Điểm 1,00 của
1,00

Implement methods **removeAt**, **removeItem**, **clear** in template class **SLinkedList** (which implements **List ADT**) representing the singly linked list with type T with the initialized frame. The description of each method is given in the code.

```
template <class T>
class SLinkedList {
public:
    class Node; // Forward declaration
protected:
    Node* head;
    Node* tail;
    int count;
public:
    SLinkedList();
    ~SLinkedList();
    void add(T e);
    void add(int index, T e);
    int size();
    bool empty();
    int size();
    void clear();
    T get(int index);
    void set(int index, T e);
    int indexOf(T item);
    bool contains(T item);
    T removeAt(int index);
    bool removeItem(T item);
public:
    class Node {
private:
    T data;
    Node* next;
    friend class SLinkedList<T>;
public:
    Node() {
        next = 0;
    }
    Node(Node* next) {
        this->next = next;
    }
    Node(T data, Node* next = NULL) {
        this->data = data;
        this->next = next;
    }
    };
};
```

For example:

Test	Result
<pre>SLinkedList<int> list; for (int i = 0; i < 10; ++i) { list.add(i); } assert(list.get(0) == list.removeAt(0)); cout << list.toString();</pre>	[1,2,3,4,5,6,7,8,9]
<pre>SLinkedList<int> list; for (int i = 0; i < 10; ++i) { list.add(i); } assert(list.get(9) == list.removeAt(9)); cout << list.toString();</pre>	[0,1,2,3,4,5,6,7,8]
<pre>SLinkedList<int> list; for (int i = 0; i < 10; ++i) { list.add(i); } assert(list.removeItem(9)); cout << list.toString();</pre>	[0,1,2,3,4,5,6,7,8]

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)**Reset answer**

```

1 template <class T>
2 T SLinkedList<T>::removeAt(int index)
3 {
4     if (index < 0 || index >= count) {
5         throw out_of_range("Index out of range");
6     }
7     Node* curNode = head;
```

```
8     T removedValue;
9     if (index == 0) {
10        head = head->next;
11        removedValue = curNode->data;
12        delete curNode;
13        if (head == nullptr) {
14            tail = nullptr;
15        }
16    } else {
17        Node* prevNode = head;
18        for (int i = 0; i < index - 1; i++) {
19            prevNode = prevNode->next;
20        }
21        curNode = prevNode->next;
22        prevNode->next = curNode->next;
23        removedValue = curNode->data;
24        delete curNode;
25        if (prevNode->next == nullptr) {
26            tail = prevNode;
27        }
28    }
29    count--;
30    return removedValue;
31}
32
33 template <class T>
34 bool SLinkedList<T>::removeItem(const T& item)
35 {
36     Node* prevNode = nullptr;
37     Node* curNode = head;
38     while (curNode != nullptr) {
39         if (curNode->data == item) {
40             if (prevNode == nullptr) {
41                 head = curNode->next;
42             } else {
43                 prevNode->next = curNode->next;
44             }
45             if (curNode == tail) {
46                 tail = prevNode;
47             }
48             delete curNode;
49             count--;
50             return true;
51         }
52         prevNode = curNode;
53         curNode = curNode->next;
54     }
55 }
```

```
54     }
55     return false;
56 }
58
59 template<class T>
60 void SLinkedList<T>::clear(){
61     while (head != nullptr) {
62         Node* curNode = head;
63         head = head->next;
64         delete curNode;
65     }
66     tail = nullptr;
67     count = 0;
68 }
69
70 }
```

	Test	Expected	Got	
✓	<pre>SLinkedList<int> list; for (int i = 0; i < 10; ++i) { list.add(i); } assert(list.get(0) == list.removeAt(0)); cout << list.toString();</pre>	[1,2,3,4,5,6,7,8,9]	[1,2,3,4,5,6,7,8,9]	✓
✓	<pre>SLinkedList<int> list; for (int i = 0; i < 10; ++i) { list.add(i); } assert(list.get(9) == list.removeAt(9)); cout << list.toString();</pre>	[0,1,2,3,4,5,6,7,8]	[0,1,2,3,4,5,6,7,8]	✓

Passed all tests! ✓

Chỉnh xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi**7**

Chính xác

Điểm 1,00 của
1,00

Class `LLNode` representing a node of singly linked lists is declared as below:

```
class LLNode {
public:
    int val;
    LLNode* next;
    LLNode(); // Constructor: val = 0, next = nullptr
    LLNode(int val, LLNode* next); // Constructor with customized data
```

Given a singly linked list head node.

Your task is to implement a function with following prototype:

```
LLNode* foldLinkedList(LLNode* head);
```

The function returns head node of the folded singly linked list.

More info:

A folded singly linked list is achieved by taking the first half of the linked list and folding over the second half and merging the intersecting nodes by taking their sum.

Note:

- The `iostream` library has been used and `namespace std` is being used. No other libraries are allowed.
- The constructors and methods of class `LLNode` have been defined fully so you do not need to redefine them.
- You can write helper functions.

For example:

Test	Result
<pre>int arr[] = {9, 5, 7, 5, 0}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = foldLinkedList(head); LLNode::printList(newhead);</pre>	<pre>[9, 5, 7, 5, 0] [7, 10, 9]</pre>
<pre>int arr[] = {8, 4, 6, 8, 5, 3}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = foldLinkedList(head); LLNode::printList(newhead);</pre>	<pre>[8, 4, 6, 8, 5, 3] [14, 9, 11]</pre>

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)

Reset answer

```
1
2 LLNode* foldLinkedList(LLNode* head) {
3     if (head == NULL || head->next == NULL){
4         return head;
5     }
6     // STUDENT ANSWER
7     LLNode* tmp = head;
8     int cntHead = 0;
9     while (tmp != NULL){
10         cntHead++;
11         tmp = tmp->next;
12     }
13     int a[cntHead];
14     tmp = head;
15     for (int i = 0; i < cntHead; i++){
16         a[i] = tmp->val;
17         tmp = tmp->next;
18     }
19     int l = 0;
20     int r = cntHead - 1;
21     while (l < r) {
22         a[l] = a[l] + a[r];
23         l++;
24         r--;
25     }
26     tmp = head;
27     LLNode *tail = NULL;
28     for (int i = (cntHead + 1) / 2 - 1; i >= 0; i--){
29         tmp->val = a[i];
30         tail = tmp;
31         tmp = tmp->next;
32     }
33     tail->next = NULL;
34     return head;
35 }
```

	Test	Expected	Got
✓	<pre>int arr[] = {9, 5, 7, 5, 0}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = foldLinkedList(head); LLNode::printList(newhead);</pre>	[9, 5, 7, 5, 0] [7, 10, 9]	[9, 5, 7, 5, 0] [7, 10, 9]
✓	<pre>int arr[] = {8, 4, 6, 8, 5, 3}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = foldLinkedList(head); LLNode::printList(newhead);</pre>	[8, 4, 6, 8, 5, 3] [14, 9, 11]	[8, 4, 6, 8, 5, 3] [14, 9, 11]
✓	<pre>int arr[] = {}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = foldLinkedList(head); LLNode::printList(newhead);</pre>	[] []	[] []
✓	<pre>int arr[] = {7, 3, 1, 9, 4, 6, 3, 8, 5, 5}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = foldLinkedList(head); LLNode::printList(newhead);</pre>	[7, 3, 1, 9, 4, 6, 3, 8, 5, 5] [10, 12, 9, 8, 12]	[7, 3, 1, 9, 4, 6, 3, 8, 5, 5] [10, 12, 9, 8, 12]

	Test	Expected	Got
✓	<pre> int arr[] = {8, 6, 9, 7, 3, 7, 6, 0, 3, 2, 2, 4, 6, 3, 6, 4, 2, 8, 3, 4, 2, 9, 4, 9, 5, 8, 5, 6, 9, 1, 5, 5, 9, 3, 1, 4, 2, 0, 1, 5, 1, 2, 9, 5, 0, 5, 3, 5, 1, 0, 6, 7, 3, 0, 9, 4, 0, 6, 0, 1, 3, 2, 9, 6, 6, 4, 4, 1, 5, 9, 6, 1, 1, 7, 9, 7, 7, 5, 1, 8, 4, 1, 4, 3, 0, 7, 7, 7, 9, 2, 9, 4, 2, 1, 2, 5, 7, 6, 5, 3, 1, 7, 2, 4, 3}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = foldLinkedList(head); LLNode::printList(newhead); </pre>	[8, 6, 9, 7, 3, 7, 6, 0, 3, 2, 2, 4, 6, 3, 6, 4, 2, 8, 3, 4, 2, 9, 4, 9, 5, 8, 5, 6, 9, 1, 5, 5, 9, 3, 1, 4, 2, 0, 1, 5, 1, 2, 9, 5, 0, 5, 3, 5, 1, 0, 6, 7, 3, 0, 9, 4, 0, 6, 0, 1, 3, 2, 9, 6, 6, 4, 4, 1, 5, 9, 6, 1, 1, 7, 9, 7, 7, 5, 1, 8, 4, 1, 4, 3, 0, 7, 7, 7, 9, 2, 9, 4, 2, 1, 2, 5, 7, 6, 5, 3, 1, 7, 2, 4, 3] [3, 7, 15, 4, 1, 11, 3, 6, 3, 7, 18, 8, 7, 9, 5, 1, 7, 13, 7, 4, 10, 12, 14, 8, 16, 11, 6, 16, 9, 10, 8, 12, 2, 11, 10, 15, 11, 6, 15, 7, 8, 5, 4, 7, 10, 6, 11, 10, 4, 14, 11, 10, 11]	[8, 6, 9, 7, 3, 7, 6, 0, 3, 2, 2, 4, 6, 3, 6, 4, 2, 8, 3, 4, 2, 9, 4, 9, 5, 8, 5, 6, 9, 1, 5, 5, 9, 3, 1, 4, 2, 0, 1, 5, 1, 2, 9, 5, 0, 5, 3, 5, 1, 0, 6, 7, 3, 0, 9, 4, 0, 6, 0, 1, 3, 2, 9, 6, 6, 4, 4, 1, 5, 9, 6, 1, 1, 7, 9, 7, 7, 5, 1, 8, 4, 1, 4, 3, 0, 7, 7, 7, 9, 2, 9, 4, 2, 1, 2, 5, 7, 6, 5, 3, 1, 7, 2, 4, 3] [3, 7, 15, 4, 1, 11, 3, 6, 3, 7, 18, 8, 7, 9, 5, 1, 7, 13, 7, 4, 10, 12, 14, 8, 16, 11, 6, 16, 9, 10, 8, 12, 2, 11, 10, 15, 11, 6, 15, 7, 8, 5, 4, 7, 10, 6, 11, 10, 4, 14, 11, 10, 11]

Test	Expected	Got
<pre> ✓ int arr[] = {5, 8, 9, 4, 1, 3, 8, 2, 3, 3, 5, 5, 6, 8, 8, 7, 4, 8, 1, 5, 8, 5, 2, 5, 0, 9, 7, 0, 8, 1, 1, 3, 4, 8, 4, 0, 5, 1, 6, 6, 0, 2, 5, 2, 8, 2, 0, 8, 3, 0, 9, 4, 5, 2, 9, 3, 2, 2, 7, 0, 3, 7, 7, 2, 8, 0, 7, 4, 5, 9, 7, 2, 6, 3, 4, 3, 1, 2, 2, 6, 2, 7, 3, 1, 9, 7, 1, 9, 6, 2, 6, 8, 1, 1, 2, 9, 7, 6, 8, 6, 2, 9, 0, 8, 9, 0, 3, 0, 1, 6, 4, 3, 4, 5, 1, 8, 0, 6, 8, 2, 2, 3, 4, 3, 0, 5, 5, 1, 9, 8, 4, 9, 4, 9, 8, 9, 7, 6, 1, 3, 8, 8, 6, 3, 0, 7, 3, 0, 9, 8, 1, 7, 8, 4, 8, 1, 4, 2, 2, 3, 8, 7, 2, 8, 0, 8, 8, 4, 2, 9, 5, 4, 2, 7, 6, 8, 4, 9, 6, 5, 1, 0, 5, 6, 7, 3, 2, 7, 0, 8, 7, 5, 0, 6, 3, 7, 5, 5, 9, 4, 5, 1, 4, 3, 6, 3, 2, 5, 9, 7, 8, 5, 0, 9, 1, 8, 7, 6, 1, 0, 5, 5, 7, 1, 8, 9, 8, 7, 7, 2, 9, 5, 8, 9, 3, 8, 4, 4, 7, 1, 7, 2, 6, 1, 6, 8, 8, 8, 7, 0, 8, 0, 5, 6, 8, 6, 8, 4, 0, 6, 7, 5, 3, 6, 6, 2, 1, 9, 1, 9, 3, 0, 5, 5, 2, 1, 2, 7, 4, 9, 6, 6, 5, 3, 5, 6, 9, 8, 6, 8, 2, 7, 3, 4, 2, 6, 3, 0, 5, 9, 0, 9, 9, 7, 0, 8, 6, 9, 8, 7, 8, 4, 0, 8, 0, 3, 0, 1, 8, 4, 5, 0, 2, 7, 0, 7, 8, 4, 0, 3, 7, 5, 2, 5, 3, 9, 1, 2, 5, 1, 1, 2, 7, 4, 6, 1, 6, 3, 0, 2, 4, 8, 5, 9, 0, 6, 0, 1, 7, 4, 1, 5, 6, 3, 9, 5, 2, 7, 0, 4, 4, 0, 8, 5, 4, 8, 5, 0, 8, 9, 7, 3, 6, 4, 4, 5, 0, 5, 0, 7, 9, 3, 4, 7, 2, 7, 9, 2, 1, 0, 9, 1, 3, 8, 5, 9, 4, 0, 5, 9, 9, 5, 1, 1, 0, 2, 9, 8, 8, 8, 8, 2, 2, 5, 8, 3, 0, 5, 9, 5, 8, 7, 0, 6, 6, 2, 3, 5, 9, 0, 1, 9, 7, 1, 4, 5, 1, 5, 5, 3, 7, 2, 6, 4, 1, 3, 2, 4, 6, 5, 2, 4, 1, 1, 3, 5, 6, 2, 0, 0, 5, 4, 7, 8, 4, 3, 1, 7, 1, 9, 3, 8, 0, 7, 8, 0, 3, 6, 3, 8, 0, 3, 1, 7, 2, 1, 7, 9}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; </pre>	<pre> [5, 8, 9, 4, 1, 3, 8, 2, 3, 3, 5, 5, 6, 8, 8, 7, 4, 8, 1, 5, 8, 5, 2, 5, 0, 9, 7, 0, 8, 1, 1, 3, 4, 8, 4, 0, 5, 1, 6, 6, 0, 2, 5, 2, 8, 2, 0, 8, 3, 0, 9, 4, 5, 2, 9, 3, 2, 2, 7, 0, 3, 7, 7, 2, 8, 0, 7, 4, 5, 9, 7, 2, 6, 3, 4, 3, 1, 2, 2, 6, 2, 7, 3, 1, 9, 7, 1, 9, 6, 2, 6, 8, 1, 1, 2, 9, 7, 6, 8, 6, 2, 9, 0, 8, 9, 0, 3, 0, 1, 6, 4, 3, 4, 5, 1, 8, 0, 6, 8, 2, 2, 3, 4, 3, 0, 5, 5, 1, 9, 8, 4, 9, 4, 9, 8, 9, 7, 6, 1, 3, 8, 8, 6, 3, 0, 7, 3, 0, 9, 8, 1, 7, 8, 4, 8, 1, 4, 2, 2, 3, 8, 7, 2, 8, 0, 8, 8, 4, 2, 9, 5, 4, 2, 7, 6, 8, 4, 9, 6, 5, 1, 0, 5, 6, 7, 3, 2, 7, 0, 8, 7, 5, 0, 6, 3, 7, 5, 5, 9, 4, 5, 1, 4, 3, 6, 3, 2, 5, 9, 7, 8, 5, 0, 9, 1, 8, 7, 6, 1, 0, 5, 5, 7, 1, 8, 9, 8, 7, 7, 2, 9, 5, 8, 9, 3, 8, 4, 4, 7, 1, 7, 2, 6, 1, 6, 8, 8, 8, 7, 0, 8, 0, 5, 6, 8, 6, 8, 8, 4, 0, 6, 7, 5, 3, 6, 6, 2, 1, 9, 1, 9, 3, 0, 5, 5, 2, 1, 2, 7, 4, 9, 6, 6, 5, 3, 5, 6, 9, 8, 6, 8, 2, 7, 3, 4, 2, 6, 3, 0, 5, 9, 0, 9, 9, 7, 0, 8, 6, 9, 8, 7, 8, 4, 0, 8, 0, 3, 0, 1, 8, </pre>	<pre> [5, 8, 9, 4, 1, 3, 8, 2, 3, 3, 5, 5, 6, 8, 8, 7, 4, 8, 1, 5, 8, 5, 2, 5, 0, 9, 7, 0, 8, 1, 1, 3, 4, 8, 4, 0, 5, 1, 6, 6, 0, 2, 5, 2, 8, 2, 0, 8, 3, 0, 9, 4, 5, 2, 9, 3, 2, 2, 7, 0, 3, 7, 7, 2, 8, 0, 7, 4, 5, 9, 7, 2, 6, 3, 4, 3, 1, 2, 2, 6, 2, 7, 3, 1, 9, 7, 1, 9, 6, 2, 6, 8, 1, 1, 2, 9, 7, 6, 8, 6, 2, 9, 0, 8, 9, 0, 3, 0, 1, 6, 4, 3, 4, 5, 1, 8, 0, 6, 8, 2, 2, 3, 4, 3, 0, 5, 5, 1, 9, 8, 4, 9, 4, 9, 8, 9, 7, 6, 1, 3, 8, 8, 6, 3, 0, 7, 3, 0, 9, 8, 1, 7, 8, 4, 8, 1, 4, 2, 2, 3, 8, 7, 2, 8, 0, 8, 8, 4, 2, 9, 5, 4, 2, 7, 6, 8, 4, 9, 6, 5, 1, 0, 5, 6, 7, 3, 2, 7, 0, 8, 7, 5, 0, 6, 3, 7, 5, 5, 9, 4, 5, 1, 4, 3, 6, 3, 2, 5, 9, 7, 8, 5, 0, 9, 1, 8, 7, 6, 1, 0, 5, 5, 7, 1, 8, 9, 8, 7, 7, 2, 9, 5, 8, 9, 3, 8, 4, 4, 7, 1, 7, 2, 6, 1, 6, 8, 8, 8, 7, 0, 8, 0, 5, 6, 8, 6, 8, 8, 4, 0, 6, 7, 5, 3, 6, 6, 2, 1, 9, 1, 9, 3, 0, 5, 5, 2, 1, 2, 7, 4, 9, 6, 6, 5, 3, 5, 6, 9, 8, 6, 8, 2, 7, 3, 4, 2, 6, 3, 0, 5, 9, 0, 9, 9, 7, 0, 8, 6, 9, 8, 7, 8, 4, 0, 8, 0, 3, 0, 1, 8, </pre>

Test	Expected	Got
<pre>LLNode* newhead = foldLinkedList(head); LLNode::printList(newhead);</pre>	<pre>4, 5, 0, 2, 7, 0, 7, 8, 4, 0, 3, 7, 5, 2, 5, 3, 9, 1, 2, 5, 1, 1, 2, 7, 4, 6, 1, 6, 3, 0, 2, 4, 8, 5, 9, 0, 6, 0, 1, 7, 4, 1, 5, 6, 3, 9, 5, 2, 7, 0, 4, 4, 0, 8, 5, 4, 8, 5, 0, 8, 9, 7, 3, 6, 4, 4, 5, 0, 5, 0, 7, 9, 3, 4, 7, 2, 7, 9, 2, 1, 0, 9, 1, 3, 8, 5, 9, 4, 0, 5, 9, 9, 5, 1, 1, 0, 2, 9, 8, 8, 8, 8, 8, 2, 2, 5, 8, 3, 0, 5, 9, 5, 8, 7, 0, 6, 6, 2, 3, 5, 9, 0, 1, 9, 7, 1, 4, 5, 1, 5, 5, 3, 7, 2, 6, 4, 1, 3, 2, 4, 6, 5, 2, 4, 1, 1, 3, 5, 6, 2, 0, 0, 5, 4, 7, 8, 4, 3, 1, 7, 1, 9, 3, 8, 0, 7, 8, 0, 3, 6, 3, 8, 0, 3, 1, 7, 2, 1, 7, 9] [8, 7, 13, 14, 16, 12, 9, 14, 6, 7, 7, 14, 9, 7, 14, 9, 11, 9, 14, 10, 11, 10, 7, 13, 14, 10, 2, 9, 12, 9, 9, 7, 12, 12, 11, 6, 15, 9, 13, 14, 15, 11, 12, 5, 7, 8, 9, 7, 1, 10, 13, 9, 14, 14, 14, 3, 14, 6, 14, 15, 15, 8, 11, 2, 11, 7, 9, 5, 1, 9, 9, 11, 9, 6, 15, 6, 14, 10, 8, 5, 12, 9, 9, 10, 13, 3, 17, 3, 9, 13, 4, 3, 4, 11, 5, 14, 5, 14, 10, 1, 10, 13, 8, 8, 16, 0, 9, 6, 9, 15, 7, 2, 11, 13, 12, 17, 14, 6, 16, 4, 12,</pre>	<pre>4, 5, 0, 2, 7, 0, 7, 8, 4, 0, 3, 7, 5, 2, 5, 3, 9, 1, 2, 5, 1, 1, 2, 7, 4, 6, 1, 6, 3, 0, 2, 4, 8, 5, 9, 0, 6, 0, 1, 7, 4, 1, 5, 6, 3, 9, 5, 2, 7, 0, 4, 4, 0, 8, 5, 4, 8, 5, 0, 8, 9, 7, 3, 6, 4, 4, 5, 0, 5, 0, 7, 9, 3, 4, 7, 2, 7, 9, 2, 1, 0, 9, 1, 3, 8, 5, 9, 4, 0, 5, 9, 9, 5, 1, 1, 0, 2, 9, 8, 8, 8, 8, 8, 2, 2, 5, 8, 3, 0, 5, 9, 5, 8, 7, 0, 6, 6, 2, 3, 5, 9, 0, 1, 9, 7, 1, 4, 5, 1, 5, 5, 3, 7, 2, 6, 4, 1, 3, 2, 4, 6, 5, 2, 4, 1, 1, 3, 5, 6, 2, 0, 0, 5, 4, 7, 8, 4, 3, 1, 7, 1, 9, 3, 8, 0, 7, 8, 0, 3, 6, 3, 8, 0, 3, 1, 7, 2, 1, 7, 9] [8, 7, 13, 14, 16, 12, 9, 14, 6, 7, 7, 14, 9, 7, 14, 9, 11, 9, 14, 10, 11, 10, 7, 13, 14, 10, 2, 9, 12, 9, 9, 7, 12, 12, 11, 6, 15, 9, 13, 14, 15, 11, 12, 5, 7, 8, 9, 7, 1, 10, 13, 9, 14, 14, 14, 3, 14, 6, 14, 15, 15, 8, 11, 2, 11, 7, 9, 5, 1, 9, 9, 11, 9, 6, 15, 6, 14, 10, 8, 5, 12, 9, 9, 10, 13, 3, 17, 3, 9, 13, 4, 3, 4, 11, 5, 14, 5, 14, 10, 1, 10, 13, 8, 8, 16, 0, 9, 6, 9, 15, 7, 2, 11, 13, 12, 17, 14, 6, 16, 4, 12,</pre>

Test	Expected	Got
	<pre>13, 1, 13, 10, 4, 11, 9, 3, 10, 11, 15, 9, 6, 12, 5, 10, 4, 8, 4, 13, 10, 3, 7, 7, 11, 15, 9, 11, 3, 6, 17, 7, 10, 17, 7, 10, 5, 8, 11, 11, 15, 14, 2, 8, 9, 3, 12, 15, 10, 14, 10, 10, 3, 5, 9, 11, 9, 2, 12, 18, 10, 12, 14, 0, 14, 8, 9, 10, 8, 9, 7, 3, 11, 10, 10, 6, 10, 5, 14, 5, 6, 15, 2, 8, 12, 3, 8, 4, 4, 12, 11, 3, 9, 1, 5, 11, 9, 9, 3, 1, 8, 5, 11, 16, 8, 9, 5, 6, 15, 6, 10, 11, 12, 7, 15, 16, 6, 8, 11, 6, 11, 2, 11, 4, 8, 6, 10, 15, 14]</pre>	<pre>13, 1, 13, 10, 4, 11, 9, 3, 10, 11, 15, 9, 6, 12, 5, 10, 4, 8, 4, 13, 10, 3, 7, 7, 11, 15, 9, 11, 3, 6, 17, 7, 10, 17, 7, 10, 5, 8, 11, 11, 15, 14, 2, 8, 9, 3, 12, 15, 10, 14, 10, 10, 3, 5, 9, 11, 9, 2, 12, 18, 10, 12, 14, 0, 14, 8, 9, 10, 8, 9, 7, 3, 11, 10, 10, 6, 10, 5, 14, 5, 6, 15, 2, 8, 12, 3, 8, 4, 4, 12, 11, 3, 9, 1, 5, 11, 9, 9, 3, 1, 8, 5, 11, 16, 8, 9, 5, 6, 15, 6, 10, 11, 12, 7, 15, 16, 6, 8, 11, 6, 11, 2, 11, 4, 8, 6, 10, 15, 14]</pre>

Test	Expected	Got
✓	<pre>int arr[] = {0, 5, 7, 0, 9, 2, 8, 3, 2, 2, 9, 3, 7, 2, 8, 0, 1, 4, 7, 3, 4, 0, 4, 5, 2, 0, 3, 1, 5, 3, 0, 2, 8, 7, 7, 1, 5, 3, 7, 9, 6, 4, 9, 8, 5, 5, 4, 3, 6, 9, 8, 0, 4, 5, 9, 4, 1, 5, 4, 2, 6, 4, 2, 1, 3, 1, 4, 6, 9, 0, 9, 6, 9, 9, 2, 0, 8, 9, 4, 9, 7, 0, 0, 5, 1, 2, 5, 2, 7, 5, 3, 3, 9, 8, 6, 5, 7, 9, 7, 3, 3, 0, 5, 9, 1, 2, 0, 2, 8, 5, 6, 3, 2, 7, 8, 6, 1, 5, 7, 1, 4, 9, 3, 2, 6, 1, 7, 9, 9, 4, 0, 9, 9, 2, 1, 1, 4, 3, 8, 7, 0, 8, 5, 0, 2, 8, 9, 6, 6, 8, 0, 6, 4, 2, 5, 1, 7, 2, 1, 3, 1, 6, 9, 0, 3, 9, 6, 2, 8, 7, 8, 1, 8, 6, 8, 0, 5, 4, 8, 0, 0, 6, 7, 4, 3, 5, 6, 3, 2, 2, 8, 2, 6, 3, 7, 9, 7, 2, 0, 3, 7, 6, 7, 6, 3, 3, 0, 4, 3, 2, 4, 3, 1, 4, 1, 5, 0, 3, 7, 4, 4, 0, 3, 9, 0, 4, 1, 7, 6, 6, 3, 7, 0, 4, 3, 6, 9, 2, 6, 7, 8, 4, 7, 5, 8, 0, 3, 4, 0, 1, 9, 2, 9, 8, 8, 3, 9, 9, 6, 2, 0, 1, 4, 2, 1, 4, 9, 4, 3, 7, 9, 7, 0, 0, 2, 7, 7, 4, 5, 2, 9, 9, 2, 1, 5, 4, 0, 9, 1, 0, 9, 3, 9, 5, 2, 6, 8, 4, 0, 0, 1, 0, 0, 5, 9, 1, 2, 8, 4, 7, 2, 3, 2, 7, 5, 4, 8, 2, 0, 7, 8, 6, 0, 1, 5, 5, 1, 4, 2, 4, 1, 4, 1, 4, 5, 0, 7, 7, 6, 4, 7, 3, 9, 3, 9, 5, 7, 2, 6, 2, 9, 7, 9, 0, 3, 1, 0, 2, 9, 7, 5, 1, 3, 1, 5, 5, 9, 2, 3, 8, 5, 5, 6, 0, 9, 1, 0, 0, 5, 2, 5, 6, 0, 7, 6, 3, 4, 9, 4, 5, 9, 0, 3, 0, 2, 8, 7, 6, 4, 0, 9, 9, 6, 8, 1, 1, 3, 0, 7, 7, 4, 8, 1, 6, 4, 2, 4, 6, 4, 7, 7, 2, 5, 8, 6, 8, 5, 3, 6, 1, 8, 5, 2, 8, 6, 8, 6, 0, 2, 5, 0, 4, 1, 8, 4, 2, 2, 3, 1, 0, 4, 8, 5, 3, 2, 7, 1, 7, 1, 8, 7, 8, 0, 9, 6, 1, 9, 1, 6, 7, 5, 3, 8, 3, 1, 9, 8, 0, 4, 3, 4, 0, 5, 7, 3, 0, 8, 1, 0, 7, 3, 4, 0, 8, 5, 0, 8, 7, 4, 7, 3, 5, 3, 2, 5, 2, 5, 2, 0, 1, 9, 0, 1, 7, 6, 2, 3, 1, 9, 5, 7, 2, 8, 2, 2, 9, 1, 1, 0, 1, 2, 2, 9, 2, 3, 0, 6, 8, 0, 3, 8, 0, 4, 2, 5, 4, 7, 6, 8, 0, 2, 4, 9, 2, 1, 9, 3, 6, 0, 3, 1, 5, 6, 2, 5, 4, 3, 8, 6, 9, 4, 1, 6, 8, 6, 0, 4, 3, 4, 4, 4, 7, 5, 8, 8, 4, 9, 9, 4, 3, 9, 9, 1, 1, 5, 9, 2,</pre>	<pre>[0, 5, 7, 0, 9, 2, 8, 3, 2, 2, 9, 3, 7, 2, 8, 0, 1, 4, 7, 3, 4, 0, 4, 5, 2, 0, 3, 1, 5, 3, 0, 2, 8, 7, 7, 1, 5, 3, 7, 9, 6, 4, 9, 8, 5, 5, 4, 3, 6, 9, 8, 0, 4, 5, 9, 4, 1, 5, 4, 2, 6, 4, 2, 1, 3, 1, 4, 6, 9, 0, 9, 6, 9, 9, 2, 0, 8, 9, 4, 9, 7, 0, 0, 5, 1, 2, 5, 2, 7, 5, 3, 3, 9, 8, 6, 5, 7, 9, 7, 3, 3, 0, 5, 9, 1, 2, 0, 2, 8, 5, 6, 3, 2, 7, 8, 6, 1, 5, 7, 1, 4, 9, 3, 2, 6, 1, 7, 9, 9, 4, 0, 9, 9, 2, 1, 1, 4, 3, 8, 7, 0, 8, 5, 0, 2, 8, 9, 6, 6, 8, 0, 6, 4, 2, 5, 1, 7, 2, 1, 3, 1, 6, 9, 0, 3, 9, 6, 2, 8, 7, 8, 1, 8, 6, 8, 0, 5, 4, 8, 0, 0, 6, 7, 4, 3, 5, 6, 3, 2, 2, 8, 2, 6, 3, 7, 9, 7, 2, 0, 3, 7, 6, 7, 6, 3, 3, 0, 4, 3, 2, 4, 3, 1, 4, 1, 5, 0, 3, 7, 4, 4, 0, 3, 9, 0, 4, 1, 7, 6, 6, 3, 7, 0, 4, 3, 6, 9, 2, 6, 7, 8, 4, 7, 5, 8, 0, 3, 4, 0, 1, 9, 2, 9, 8, 8, 3, 9, 9, 6, 2, 0, 1, 4, 2, 1, 4, 9, 4, 3, 7, 9, 7, 0, 0, 2, 7, 7, 4, 5, 2, 9, 9, 2, 1, 5, 4, 0, 9, 1, 0, 9, 3, 9, 5, 2, 6, 8, 4, 0, 0, 1, 0, 0, 5, 9, 1, 2, 8, 4, 7, 2, 3, 2, 7, 5, 4, 8, 2, 0, 7,</pre>

Test	Expected	Got
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Passed all tests! ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi**8**

Chính xác

Điểm 1,00 của
1,00

Class `LLNode` representing a node of singly linked lists is declared as below:

```
class LLNode {  
public:  
    int val;  
    LLNode* next;  
    LLNode(); // Constructor: val = 0, next = nullptr  
    LLNode(int val, LLNode* next); // Constructor with customized data  
}
```

Given a singly linked list head node.

Your task is to implement a function with following prototype:

```
LLNode* replaceFirstGreater(LLNode* head);
```

The function returns head node of the singly linked list after replacing every node's value with the first greater node's value to its right. If a node doesn't have a next greater node, set its value to `0`.

Note:

- The `iostream` and `stack` libraries have been included and `namespace std` is being used. No other libraries are allowed.
- The constructors and methods of class `LLNode` have been defined fully so you do not need to redefine them.
- You can write helper functions.

Answer: (penalty regime: 0 %)

Reset answer

```
1  LLNode* replaceFirstGreater(LLNode* head) {  
2      stack<std::pair<int, LLNode*>> s;  
3      LLNode* current = head;  
4      int index = 0;  
5  
6      while (current != nullptr) {  
7          while (!s.empty() && s.top().second->val < current->val) {  
8              s.top().second->val = current->val;  
9              s.pop();  
10         }  
11  
12         s.push({index, current});  
13         current = current->next;  
14         index++;  
15     }  
16 }
```

```

17 ▼   while (!s.empty()) {
18     s.top().second->val = 0;
19     s.pop();
20   }
21
22   return head;
23 }
```

	Test	Expected	Got
✓	<pre> int arr[] = {0, 3, 2, 1, 5}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = replaceFirstGreater(head); LLNode::printList(newhead);</pre>	[0, 3, 2, 1, 5] [3, 5, 5, 5, 0]	[0, 3, 2, 1, 5] [3, 5, 5, 5, 0]
✓	<pre> int arr[] = {5, 4, 2, 8, 6, 7}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = replaceFirstGreater(head); LLNode::printList(newhead);</pre>	[5, 4, 2, 8, 6, 7] [8, 8, 8, 0, 7, 0]	[5, 4, 2, 8, 6, 7] [8, 8, 8, 0, 7, 0]
✓	<pre> int arr[] = {}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = replaceFirstGreater(head); LLNode::printList(newhead);</pre>	[]	[]

	Test	Expected	Got
✓	<pre>int arr[] = {8, 3, 5, 0, 8, 7, 1, 6, 5, 4}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = replaceFirstGreater(head); LLNode::printList(newhead);</pre>	<pre>[8, 3, 5, 0, 8, 7, 1, 6, 5, 4] [0, 5, 8, 8, 0, 0, 6, 0, 0, 0]</pre>	<pre>[8, 3, 5, 0, 8, 7, 1, 6, 5, 4] [0, 5, 8, 8, 0, 0, 6, 0, 0, 0]</pre>
✓	<pre>int arr[] = {8, 1, 8, 1, 6, 9, 7, 8, 4, 0, 7, 6, 1, 0, 3, 4, 3, 7, 3, 3, 5, 0, 3, 7, 3, 8, 4, 9, 9, 0, 9, 7, 2, 5, 2, 5, 0, 1, 7, 4, 9, 1, 2, 2, 4, 2, 9, 7, 0, 0, 7, 3, 8, 8, 1, 7, 7, 7, 8, 1, 0, 7, 6, 3, 7, 3, 0, 3, 0, 2, 2, 7, 7, 2, 2, 4, 5, 2, 2, 1, 1, 8, 6, 8, 1, 4, 7, 1, 5, 5, 7, 5, 5, 3, 0, 0, 5, 4, 1, 8, 4, 7, 1, 7, 8}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = replaceFirstGreater(head); LLNode::printList(newhead);</pre>	<pre>[8, 1, 8, 1, 6, 9, 7, 8, 4, 0, 7, 6, 1, 0, 3, 4, 3, 7, 3, 3, 5, 0, 3, 7, 3, 8, 4, 9, 9, 0, 9, 7, 2, 5, 2, 5, 0, 1, 7, 4, 9, 1, 2, 2, 4, 2, 9, 7, 0, 0, 7, 3, 8, 8, 1, 7, 7, 7, 8, 1, 0, 7, 6, 3, 7, 3, 0, 3, 0, 2, 2, 7, 7, 2, 2, 4, 5, 2, 2, 1, 1, 8, 6, 8, 1, 4, 7, 1, 5, 5, 7, 5, 5, 3, 0, 0, 5, 4, 1, 8, 4, 7, 1, 7, 8] [9, 8, 9, 6, 9, 0, 8, 9, 7, 7, 8, 7, 3, 3, 4, 7, 7, 8, 5, 5, 7, 3, 7, 8, 8, 9, 9, 0, 0, 9, 0, 9, 5, 7, 5, 7, 1, 7, 9, 9, 0, 2, 4, 4, 9, 9, 0, 8, 7, 7, 8, 8, 0, 0, 7, 8, 8, 8, 0, 7, 7, 8, 7, 7, 8, 7, 3, 7, 2, 7, 7, 8, 8, 4, 4, 5, 8, 8, 8, 8, 8, 0, 8, 0, 4, 7, 8, 5, 7, 7, 8, 8, 8, 5, 5, 5, 8, 8, 8, 0, 7, 8, 7, 8, 0]</pre>	<pre>[8, 1, 8, 1, 6, 9, 7, 8, 4, 0, 7, 6, 1, 0, 3, 4, 3, 7, 3, 3, 5, 0, 3, 7, 3, 8, 4, 9, 9, 0, 9, 7, 2, 5, 2, 5, 0, 1, 7, 4, 9, 1, 2, 2, 4, 2, 9, 7, 0, 0, 7, 3, 8, 8, 1, 7, 7, 7, 8, 1, 0, 7, 6, 3, 7, 3, 0, 3, 0, 2, 2, 7, 7, 2, 2, 4, 5, 2, 2, 1, 1, 8, 6, 8, 1, 4, 7, 1, 5, 5, 7, 5, 5, 3, 0, 0, 5, 4, 1, 8, 4, 7, 1, 7, 8] [9, 8, 9, 6, 9, 0, 8, 9, 7, 7, 8, 7, 3, 3, 4, 7, 7, 8, 5, 5, 7, 3, 7, 8, 8, 9, 9, 0, 0, 9, 0, 9, 5, 7, 5, 7, 1, 7, 9, 9, 0, 2, 4, 4, 9, 9, 0, 8, 7, 7, 8, 8, 0, 0, 7, 8, 8, 8, 0, 7, 7, 8, 7, 7, 8, 7, 3, 7, 2, 7, 7, 8, 8, 4, 4, 5, 8, 8, 8, 8, 8, 0, 8, 0, 4, 7, 8, 5, 7, 7, 8, 8, 8, 5, 5, 5, 8, 8, 8, 0, 7, 8, 7, 8, 0]</pre>

Test	Expected	Got
<pre> int arr[] = {1, 8, 9, 0, 6, 3, 5, 1, 0, 9, 0, 6, 9, 4, 8, 7, 9, 7, 1, 4, 9, 4, 2, 6, 0, 9, 6, 5, 1, 5, 6, 7, 0, 3, 3, 3, 4, 8, 3, 0, 6, 8, 1, 2, 2, 4, 7, 4, 3, 4, 5, 4, 2, 1, 7, 7, 7, 2, 2, 0, 0, 6, 8, 5, 2, 1, 1, 9, 3, 8, 1, 6, 5, 2, 6, 4, 2, 9, 6, 1, 8, 1, 9, 9, 3, 4, 7, 7, 3, 3, 5, 7, 7, 5, 9, 3, 5, 0, 1, 4, 2, 2, 5, 0, 7, 6, 5, 8, 8, 6, 7, 6, 5, 3, 3, 5, 3, 3, 2, 2, 6, 0, 5, 0, 3, 1, 5, 9, 9, 3, 6, 2, 6, 8, 5, 0, 4, 2, 8, 2, 3, 0, 3, 5, 5, 1, 1, 7, 3, 8, 0, 8, 1, 1, 9, 9, 1, 6, 5, 9, 2, 1, 2, 8, 9, 3, 8, 6, 7, 9, 1, 4, 9, 0, 6, 8, 1, 8, 5, 3, 2, 2, 1, 5, 0, 2, 7, 0, 0, 6, 9, 9, 9, 3, 6, 0, 4, 4, 0, 9, 9, 8, 0, 9, 7, 8, 3, 7, 1, 8, 7, 5, 7, 4, 2, 8, 2, 8, 5, 8, 1, 5, 6, 7, 1, 5, 2, 3, 8, 9, 1, 1, 4, 4, 3, 7, 3, 1, 4, 6, 0, 1, 0, 4, 9, 2, 1, 9, 5, 8, 5, 6, 1, 5, 5, 5, 5, 3, 5, 6, 0, 8, 5, 8, 4, 7, 8, 4, 7, 4, 2, 1, 6, 6, 6, 3, 6, 1, 8, 2, 7, 4, 9, 8, 9, 8, 2, 1, 4, 9, 3, 6, 3, 6, 2, 7, 6, 3, 5, 1, 6, 1, 3, 3, 1, 0, 3, 6, 7, 2, 7, 0, 9, 0, 2, 4, 4, 8, 1, 0, 4, 1, 6, 7, 7, 2, 6, 4, 4, 1, 8, 3, 7, 2, 5, 7, 2, 5, 7, 1, 3, 5, 8, 8, 2, 4, 8, 4, 8, 5, 6, 1, 1, 1, 2, 0, 1, 9, 9, 7, 7, 4, 8, 4, 6, 4, 5, 6, 8, 6, 6, 4, 5, 3, 1, 0, 8, 7, 2, 5, 6, 1, 7, 0, 0, 6, 5, 9, 2, 1, 4, 9, 3, 8, 2, 3, 8, 3, 0, 5, 6, 0, 0, 4, 9, 8, 5, 8, 2, 9, 1, 9, 8, 7, 4, 5, 3, 1, 3, 3, 1, 0, 1, 2, 5, 6, 6, 6, 8, 7, 7, 4, 2, 5, 7, 1, 7, 2, 1, 2, 7, 8, 0, 1, 3, 8, 8, 4, 9, 1, 7, 8, 5, 0, 8, 0, 9, 2, 1, 2, 4, 0, 3, 8, 0, 9, 9, 2, 3, 0, 7, 9, 3, 7, 7, 6, 0, 4, 1, 3, 6, 9, 0, 5, 5, 8, 2, 0, 5, 1, 5, 3, 6, 9, 4, 8, 2, 6, 5, 1, 1}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; </pre>	<pre> [1, 8, 9, 0, 6, 3, 5, 1, 0, 9, 0, 6, 9, 4, 8, 7, 9, 7, 1, 4, 9, 4, 2, 6, 0, 9, 6, 5, 1, 5, 6, 7, 0, 3, 3, 3, 4, 8, 3, 0, 6, 8, 1, 2, 2, 4, 7, 4, 3, 4, 5, 4, 2, 1, 7, 7, 7, 2, 2, 0, 0, 6, 8, 5, 2, 1, 1, 9, 3, 8, 1, 6, 5, 2, 6, 4, 2, 9, 6, 1, 8, 1, 9, 9, 3, 4, 7, 7, 3, 3, 5, 7, 7, 5, 9, 3, 5, 0, 1, 4, 2, 2, 5, 0, 7, 6, 5, 8, 8, 6, 7, 6, 5, 3, 3, 5, 3, 3, 2, 2, 6, 0, 5, 0, 3, 1, 5, 9, 9, 3, 6, 2, 6, 8, 5, 0, 4, 2, 8, 2, 3, 0, 3, 5, 5, 1, 1, 7, 3, 8, 0, 8, 1, 1, 9, 9, 1, 6, 5, 9, 2, 1, 2, 8, 9, 3, 8, 6, 7, 9, 1, 4, 9, 0, 6, 8, 1, 8, 5, 3, 2, 2, 1, 5, 0, 2, 7, 0, 0, 6, 9, 9, 9, 3, 6, 0, 4, 4, 0, 9, 9, 8, 0, 9, 7, 8, 3, 7, 1, 8, 7, 5, 7, 4, 2, 8, 2, 8, 5, 8, 1, 5, 6, 7, 1, 5, 2, 3, 8, 9, 1, 1, 4, 4, 3, 7, 3, 1, 4, 6, 0, 1, 0, 4, 9, 2, 1, 9, 5, 8, 5, 6, 1, 5, 5, 5, 5, 3, 5, 6, 0, 8, 5, 8, 4, 7, 8, 4, 7, 4, 2, 1, 6, 6, 6, 3, 6, 1, 8, 2, 7, 4, 9, 8, 9, 8, 2, 1, 4, 9, 3, 6, 3, 6, 2, 7, 6, 3, 5, 1, 6, 1, 3, 3, 1, 0, 3, 6, 7, 2, 7, 0, 9, 0, 2, 4, 4, 8, 1, 0, </pre>	<pre> [1, 8, 9, 0, 6, 3, 5, 1, 0, 9, 0, 6, 9, 4, 8, 7, 9, 7, 1, 4, 9, 4, 2, 6, 0, 9, 6, 5, 1, 5, 6, 7, 0, 3, 3, 3, 4, 8, 3, 0, 6, 8, 1, 2, 2, 4, 7, 4, 3, 4, 5, 4, 2, 1, 7, 7, 7, 2, 2, 0, 0, 6, 8, 5, 2, 1, 1, 9, 3, 8, 1, 6, 5, 2, 6, 4, 2, 9, 6, 1, 8, 1, 9, 9, 3, 4, 7, 7, 3, 3, 5, 7, 7, 5, 9, 3, 5, 0, 1, 4, 2, 2, 5, 0, 7, 6, 5, 8, 8, 6, 7, 6, 5, 3, 3, 5, 3, 3, 2, 2, 6, 0, 5, 0, 3, 1, 5, 9, 9, 3, 6, 2, 6, 8, 5, 0, 4, 2, 8, 2, 3, 0, 3, 5, 5, 1, 1, 7, 3, 8, 0, 8, 1, 1, 9, 9, 1, 6, 5, 9, 2, 1, 2, 8, 9, 3, 8, 6, 7, 9, 1, 4, 9, 0, 6, 8, 1, 8, 5, 3, 2, 2, 1, 5, 0, 2, 7, 0, 0, 6, 9, 9, 9, 3, 6, 0, 4, 4, 0, 9, 9, 8, 0, 9, 7, 8, 3, 7, 1, 8, 7, 5, 7, 4, 2, 8, 2, 8, 5, 8, 1, 5, 6, 7, 1, 5, 2, 3, 8, 9, 1, 1, 4, 4, 3, 7, 3, 1, 4, 6, 0, 1, 0, 4, 9, 2, 1, 9, 5, 8, 5, 6, 1, 5, 5, 5, 5, 3, 5, 6, 0, 8, 5, 8, 4, 7, 8, 4, 7, 4, 2, 1, 6, 6, 6, 3, 6, 1, 8, 2, 7, 4, 9, 8, 9, 8, 2, 1, 4, 9, 3, 6, 3, 6, 2, 7, 6, 3, 5, 1, 6, 1, 3, 3, 1, 0, 3, 6, 7, 2, 7, 0, 9, 0, 2, 4, 4, 8, 1, 0, </pre>

Test	Expected	Got
<pre>LLNode* newhead = replaceFirstGreater(head); LLNode::printList(newhead);</pre>	<pre>4, 1, 6, 7, 7, 2, 6, 4, 4, 1, 8, 3, 7, 2, 5, 7, 2, 5, 7, 1, 3, 5, 8, 8, 2, 4, 8, 4, 8, 5, 6, 1, 1, 1, 2, 0, 1, 9, 9, 7, 7, 4, 8, 4, 6, 4, 5, 6, 8, 6, 6, 4, 5, 3, 1, 0, 8, 7, 2, 5, 6, 1, 7, 0, 6, 5, 9, 2, 1, 4, 9, 3, 8, 2, 3, 8, 3, 0, 5, 6, 0, 0, 4, 9, 8, 5, 8, 2, 9, 1, 9, 8, 7, 4, 5, 3, 1, 3, 3, 1, 0, 1, 2, 5, 6, 6, 6, 8, 7, 7, 4, 2, 5, 7, 1, 7, 2, 1, 2, 7, 8, 0, 1, 3, 8, 8, 4, 9, 1, 7, 8, 5, 0, 8, 0, 9, 2, 1, 2, 4, 0, 3, 8, 0, 9, 9, 2, 3, 0, 7, 9, 3, 7, 7, 6, 0, 4, 1, 3, 6, 9, 0, 5, 5, 8, 2, 0, 5, 1, 5, 3, 6, 9, 4, 8, 2, 6, 5, 1, 1] [8, 9, 0, 6, 9, 5, 9, 9, 9, 0, 6, 9, 0, 8, 9, 9, 0, 9, 4, 9, 0, 6, 6, 9, 9, 0, 7, 6, 5, 6, 7, 8, 3, 4, 4, 4, 8, 9, 6, 6, 8, 9, 2, 4, 4, 7, 8, 5, 4, 5, 7, 7, 7, 7, 8, 8, 8, 6, 6, 6, 6, 8, 9, 9, 9, 9, 9, 0, 8, 9, 6, 9, 6, 6, 9, 9, 9, 0, 8, 8, 9, 9, 0, 0, 4, 7, 9, 9, 5, 5, 7, 9, 9, 9, 0, 5, 7, 1, 4, 5, 5, 5, 7, 7, 8, 8, 8, 9, 9, 7, 9, 9, 6, 5, 5, 6, 6, 6, 6, 6, 9, 5, 9, 3, 5, 5, 9, 0, 0, 6, 8, 6, 8, 9, 8, 4,</pre>	<pre>4, 1, 6, 7, 7, 2, 6, 4, 4, 1, 8, 3, 7, 2, 5, 7, 2, 5, 7, 1, 3, 5, 8, 8, 2, 4, 8, 4, 8, 5, 6, 1, 1, 1, 2, 0, 1, 9, 9, 7, 7, 4, 8, 4, 6, 4, 5, 6, 8, 6, 6, 4, 5, 3, 1, 0, 8, 7, 2, 5, 6, 1, 7, 0, 6, 5, 9, 2, 1, 4, 9, 3, 8, 2, 3, 8, 3, 0, 5, 6, 0, 0, 4, 9, 8, 5, 8, 2, 9, 1, 9, 8, 7, 4, 5, 3, 1, 3, 3, 1, 0, 1, 2, 5, 6, 6, 6, 8, 7, 7, 4, 2, 5, 7, 1, 7, 2, 1, 2, 7, 8, 0, 1, 3, 8, 8, 4, 9, 1, 7, 8, 5, 0, 8, 0, 9, 2, 1, 2, 4, 0, 3, 8, 0, 9, 9, 2, 3, 0, 7, 9, 3, 7, 7, 6, 0, 4, 1, 3, 6, 9, 0, 5, 5, 8, 2, 0, 5, 1, 5, 3, 6, 9, 4, 8, 2, 6, 5, 1, 1] [8, 9, 0, 6, 9, 5, 9, 9, 9, 0, 6, 9, 0, 8, 9, 9, 0, 9, 4, 9, 0, 6, 6, 9, 9, 0, 7, 6, 5, 6, 7, 8, 3, 4, 4, 4, 8, 9, 6, 6, 8, 9, 2, 4, 4, 7, 8, 5, 4, 5, 7, 7, 7, 7, 8, 8, 8, 6, 6, 6, 6, 8, 9, 9, 9, 9, 9, 0, 8, 9, 6, 9, 6, 6, 9, 9, 9, 0, 8, 8, 9, 9, 0, 0, 4, 7, 9, 9, 5, 5, 7, 9, 9, 9, 0, 5, 7, 1, 4, 5, 5, 5, 7, 7, 8, 8, 8, 9, 9, 7, 9, 9, 6, 5, 5, 6, 6, 6, 6, 6, 9, 5, 9, 3, 5, 5, 9, 0, 0, 6, 8, 6, 8, 9, 8, 4,</pre>

Test	Expected	Got
	8, 8, 9, 3, 5, 3, 5, 7, 7, 7, 7, 8, 8, 9, 8, 9, 9, 9, 0, 0, 6, 9, 9, 0, 8, 2, 8, 9, 0, 8, 9, 7, 9, 0, 4, 9, 0, 6, 8, 9, 8, 9, 7, 5, 5, 5, 5, 7, 2, 7, 9, 6, 6, 9, 0, 0, 0, 6, 9, 4, 9, 9, 9, 0, 0, 9, 9, 0, 8, 9, 7, 8, 8, 9, 8, 7, 8, 8, 8, 9, 8, 9, 8, 9, 5, 6, 7, 8, 5, 8, 3, 8, 9, 0, 4, 4, 7, 7, 7, 9, 4, 4, 6, 9, 1, 4, 4, 9, 0, 9, 9, 0, 8, 9, 6, 8, 5, 6, 6, 6, 6, 5, 6, 8, 8, 9, 8, 9, 7, 8, 9, 7, 8, 6, 6, 6, 8, 8, 8, 6, 8, 8, 9, 7, 9, 9, 0, 9, 0, 9, 4, 4, 9, 0, 6, 7, 6, 7, 7, 9, 7, 5, 6, 6, 7, 3, 6, 6, 3, 3, 6, 7, 9, 7, 9, 9, 0, 2, 4, 8, 8, 9, 4, 4, 6, 6, 7, 8, 8, 6, 8, 8, 8, 8, 9, 7, 8, 5, 7, 8, 5, 7, 8, 3, 5, 8, 9, 9, 4, 8, 9, 8, 9, 6, 9, 2, 2, 2, 9, 1, 9, 0, 0, 8, 8, 8, 9, 6, 8, 5, 6, 8, 9, 8, 8, 5, 8, 8, 8, 8, 9, 9, 5, 6, 7, 7, 9, 6, 9, 9, 0, 4, 4, 9, 0, 8, 9, 3, 8, 9, 5, 5, 6, 9, 4, 4, 9, 0, 9, 8, 9, 9, 0, 9, 0, 9, 8, 5, 6, 5, 3, 5, 5, 2, 1, 2, 5, 6, 8, 8, 8, 9, 8, 8, 5, 5, 7, 8, 7, 8, 7, 2, 7, 8, 9, 1, 3, 8, 9, 9, 9, 0, 7, 8, 9, 8, 8, 9, 9, 0,	8, 8, 9, 3, 5, 3, 5, 7, 7, 7, 7, 8, 8, 9, 8, 9, 9, 9, 0, 0, 6, 9, 9, 0, 8, 2, 8, 9, 0, 8, 9, 7, 9, 0, 4, 9, 0, 6, 8, 9, 8, 9, 7, 5, 5, 5, 5, 7, 2, 7, 9, 6, 6, 9, 0, 0, 0, 6, 9, 4, 9, 9, 9, 0, 0, 9, 9, 0, 8, 9, 7, 8, 8, 9, 8, 7, 8, 8, 8, 9, 8, 9, 8, 9, 5, 6, 7, 8, 5, 8, 3, 8, 9, 0, 4, 4, 7, 7, 7, 9, 4, 4, 6, 9, 1, 4, 4, 9, 0, 9, 9, 0, 8, 9, 6, 8, 5, 6, 6, 6, 6, 5, 6, 8, 8, 9, 8, 9, 7, 8, 9, 7, 8, 6, 6, 6, 8, 8, 8, 6, 8, 8, 9, 7, 9, 9, 0, 9, 0, 9, 4, 4, 9, 0, 6, 7, 6, 7, 7, 9, 7, 5, 6, 6, 7, 3, 6, 6, 3, 3, 6, 7, 9, 7, 9, 9, 0, 2, 4, 8, 8, 9, 4, 4, 6, 6, 7, 8, 8, 6, 8, 8, 8, 8, 9, 7, 8, 5, 7, 8, 5, 7, 8, 3, 5, 8, 9, 9, 4, 8, 9, 8, 9, 6, 9, 2, 2, 2, 9, 1, 9, 0, 0, 8, 8, 8, 9, 6, 8, 5, 6, 8, 9, 8, 8, 5, 8, 8, 8, 8, 9, 9, 5, 6, 7, 7, 9, 6, 9, 9, 0, 4, 4, 9, 0, 8, 9, 3, 8, 9, 5, 5, 6, 9, 4, 4, 9, 0, 9, 8, 9, 9, 0, 9, 0, 9, 8, 5, 6, 5, 3, 5, 5, 2, 1, 2, 5, 6, 8, 8, 8, 9, 8, 8, 5, 5, 7, 8, 7, 8, 7, 2, 7, 8, 9, 1, 3, 8, 9, 9, 9, 0, 7, 8, 9, 8, 8, 9, 9, 0,

Test	Expected	Got
	4, 2, 4, 8, 3, 8, 9, 9, 0, 0, 3, 7, 7, 9, 0, 7, 9, 9, 9, 4, 6, 3, 6, 9, 0, 5, 8, 8, 9, 5, 5, 6, 5, 6, 6, 9, 0, 8, 0, 6, 0, 0, 0, 0]	4, 2, 4, 8, 3, 8, 9, 9, 0, 0, 3, 7, 7, 9, 0, 7, 9, 9, 9, 4, 6, 3, 6, 9, 0, 5, 8, 8, 9, 5, 5, 6, 5, 6, 6, 9, 0, 8, 0, 6, 0, 0, 0, 0]

Test	Expected	Got
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	6, 2, 2, 7, 9, 2, 7, 8, 7, 7, 4, 1, 0, 0, 3, 8, 4, 8, 6, 0, 7, 8, 7, 4, 2, 7, 4, 3, 1, 7, 2, 6, 6, 4, 9, 1, 0, 6, 4, 5, 7, 6, 8, 8, 6] [3, 3, 5, 5, 9, 0, 9, 0, 9, 2, 5, 5, 5, 9, 9, 0, 0, 8, 9, 7, 7, 7, 9, 9, 0, 6, 9, 0, 6, 6, 8, 8, 2, 2, 4, 8, 4, 4, 4, 4, 8, 9, 9, 7, 5, 5, 7, 9, 9, 7, 7, 7, 9, 9, 9, 0, 0, 7, 5, 7, 7, 8, 7, 5, 7, 8, 4, 8, 9, 6, 6, 8, 8, 9, 0, 9, 0, 8, 8, 9, 7, 4, 5, 7, 7, 7, 8, 8, 9, 9, 9, 9, 9, 0, 7, 5, 7, 3, 7, 8, 8, 6, 6, 8, 8, 9, 9, 9, 0, 6, 6, 6, 6, 6, 9, 4, 4, 5, 5, 9, 2, 4, 4, 4, 5, 5, 5, 9, 5, 9, 9, 9, 0, 9, 0, 8, 8, 9, 9, 9, 4, 5, 3, 5, 5, 9, 9, 0, 0, 9, 9, 9, 0, 1, 4, 7, 8, 4, 4, 5, 6, 6, 6, 7, 8, 8, 9, 5, 9, 9, 0, 6, 9, 0, 7, 9, 9, 4, 5, 9, 9, 0, 9, 0, 7, 3, 3, 6, 7, 7, 8, 8, 8, 8, 9, 6, 6, 9, 9, 0, 8, 9, 9, 9, 0, 8, 8, 9, 5, 7, 3, 7, 8, 8, 9, 7, 8, 9, 9, 0, 9, 0, 8, 2, 3, 8, 8, 9, 9, 6, 9, 9, 9, 0, 9, 4, 4, 7, 7, 9, 9, 0, 4, 4, 9, 0, 8, 9, 8, 5, 8, 9, 9, 7, 7, 1, 7, 9, 3, 9, 9, 0, 8, 8, 9, 6, 7, 9, 7, 7, 9, 9,	6, 2, 2, 7, 9, 2, 7, 8, 7, 7, 4, 1, 0, 0, 3, 8, 4, 8, 6, 0, 7, 8, 7, 4, 2, 7, 4, 3, 1, 7, 2, 6, 6, 4, 9, 1, 0, 6, 4, 5, 7, 6, 8, 8, 6] [3, 3, 5, 5, 9, 0, 9, 0, 9, 2, 5, 5, 5, 9, 9, 0, 0, 8, 9, 7, 7, 7, 9, 9, 0, 6, 9, 0, 6, 6, 8, 8, 2, 2, 4, 8, 4, 4, 4, 4, 8, 9, 9, 7, 5, 5, 7, 9, 9, 7, 7, 7, 9, 9, 9, 0, 0, 7, 5, 7, 7, 8, 7, 5, 7, 8, 4, 8, 9, 6, 6, 8, 8, 9, 0, 9, 0, 8, 8, 9, 7, 4, 5, 7, 7, 7, 8, 8, 9, 9, 9, 9, 9, 0, 7, 5, 7, 3, 7, 8, 8, 6, 6, 8, 8, 9, 9, 9, 0, 6, 6, 6, 6, 6, 9, 4, 4, 5, 5, 9, 2, 4, 4, 4, 5, 5, 5, 9, 5, 9, 9, 9, 0, 9, 0, 8, 8, 9, 9, 9, 4, 5, 3, 5, 5, 9, 9, 0, 0, 9, 9, 9, 0, 1, 4, 7, 8, 4, 4, 5, 6, 6, 6, 7, 8, 8, 9, 5, 9, 9, 0, 6, 9, 0, 7, 9, 9, 4, 5, 9, 9, 0, 9, 0, 7, 3, 3, 6, 7, 7, 8, 8, 8, 8, 9, 6, 6, 9, 9, 0, 8, 9, 9, 9, 0, 8, 8, 9, 5, 7, 3, 7, 8, 8, 9, 7, 8, 9, 9, 0, 9, 0, 8, 2, 3, 8, 8, 9, 9, 6, 9, 9, 9, 0, 9, 4, 4, 7, 7, 9, 9, 0, 4, 4, 9, 0, 8, 9, 8, 5, 8, 9, 9, 7, 7, 1, 7, 9, 3, 9, 9, 0, 8, 8, 9, 6, 7, 9, 7, 7, 9, 9,

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	4, 7, 8, 6, 8, 9, 7, 7, 7, 8, 7, 7, 8, 8, 9, 6, 7, 5, 5, 7, 8, 8, 9, 9, 0, 9, 4, 9, 2, 9, 0, 5, 7, 5, 7, 4, 7, 8, 7, 8, 8, 8, 9, 0, 8, 9, 9, 9, 0, 3, 4, 3, 4, 4, 4, 4, 4, 5, 7, 8, 8, 8, 9, 6, 9, 9, 9, 0, 8, 8, 9, 4, 7, 1, 7, 9, 5, 5, 7, 7, 7, 9, 6, 6, 7, 7, 9, 4, 4, 5, 5, 5, 7, 9, 3, 9, 9, 0, 1, 9, 9, 0, 0, 0, 0, 0]	4, 7, 8, 6, 8, 9, 7, 7, 7, 8, 7, 7, 8, 8, 9, 6, 7, 5, 5, 7, 8, 8, 9, 9, 0, 9, 4, 9, 2, 9, 0, 5, 7, 5, 7, 4, 7, 8, 7, 8, 8, 8, 9, 0, 8, 9, 9, 9, 0, 3, 4, 3, 4, 4, 4, 4, 4, 5, 7, 8, 8, 8, 9, 6, 9, 9, 9, 0, 8, 8, 9, 4, 7, 1, 7, 9, 5, 5, 7, 7, 7, 9, 6, 6, 7, 7, 9, 4, 4, 5, 5, 5, 7, 9, 3, 9, 9, 0, 1, 9, 9, 0, 0, 0, 0, 0]

Passed all tests! ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi**9**

Chính xác

Điểm 1,00 của
1,00

Class `LLNode` representing a node of singly linked lists is declared as below:

```
class LLNode {
public:
    int val;
    LLNode* next;
    LLNode(); // Constructor: val = 0, next = nullptr
    LLNode(int val, LLNode* next); // Constructor with customized data
}
```

Given a singly linked list head node.

Your task is to implement a function with following prototype:

```
LLNode* reverseLinkedList(LLNode* head);
```

The function returns head node of the reversed singly linked list.

Note:

- The `iostream` library has been included and namespace `std` is being used. No other libraries are allowed.
- The constructors and methods of class `LLNode` have been defined fully so you do not need to redefine them.
- You can write helper functions.

For example:

Test	Result
<pre>int arr[] = {13, 88, 60, 7, 192}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = reverseLinkedList(head); LLNode::printList(newhead); newhead->clear();</pre>	<pre>[13, 88, 60, 7, 192] [192, 7, 60, 88, 13]</pre>

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)

```
1 ▼ LLNode* reverseLinkedList(LLNode* head) {
2 ▼     if (head == nullptr || head->next == nullptr) {
3         return head;
4     }
5 }
```

```

6   LLNode* prev = nullptr;
7   LLNode* current = head;
8   LLNode* nextNode = nullptr;
9
10  while (current != nullptr) {
11      nextNode = current->next;
12      current->next = prev;
13      prev = current;
14      current = nextNode;
15  }
16
17  return prev;
18}
19

```

	Test	Expected	Got
✓	<pre> int arr[] = {13, 88, 60, 7, 192}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = reverseLinkedList(head); LLNode::printList(newhead); newhead->clear(); </pre>	[13, 88, 60, 7, 192] [192, 7, 60, 88, 13]	[13, 88, 60, 7, 192] [192, 7, 60, 88, 13]
✓	<pre> int arr[] = {}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = reverseLinkedList(head); LLNode::printList(newhead); newhead->clear(); </pre>	[] []	[] []

	Test	Expected	Got
✓	<pre>int arr[] = {31, 22, 46, 152, 14, 87, 196, 97, 5, 93}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = reverseLinkedList(head); LLNode::printList(newhead); newhead->clear();</pre>	[31, 22, 46, 152, 14, 87, 196, 97, 5, 93] [93, 5, 97, 196, 87, 14, 152, 46, 22, 31]	[31, 22, 46, 152, 14, 87, 196, 97, 5, 93] [93, 5, 97, 196, 87, 14, 152, 46, 22, 31]
✓	<pre>int arr[] = {115, 59, 178, 39, 109, 18, 154, 106, 94, 174, 51, 33, 132, 195, 161, 37, 61, 107, 120, 190}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = reverseLinkedList(head); LLNode::printList(newhead); newhead->clear();</pre>	[115, 59, 178, 39, 109, 18, 154, 106, 94, 174, 51, 33, 132, 195, 161, 37, 61, 107, 120, 190] [190, 120, 107, 61, 37, 161, 195, 132, 33, 51, 174, 94, 106, 154, 18, 109, 39, 178, 59, 115]	[115, 59, 178, 39, 109, 18, 154, 106, 94, 174, 51, 33, 132, 195, 161, 37, 61, 107, 120, 190] [190, 120, 107, 61, 37, 161, 195, 132, 33, 51, 174, 94, 106, 154, 18, 109, 39, 178, 59, 115]

Test	Expected	Got
<p>✓</p> <pre>int arr[] = {104, 50, 154, 40, 15, 171, 56, 114, 67, 90, 46, 179, 152, 177, 139, 45, 18, 55, 38, 158, 8, 157, 143, 37, 16, 83, 173, 82, 156, 51, 124, 25, 68, 51, 194, 105, 44, 17, 97, 0, 150, 66, 71, 81, 11, 180, 148, 160, 127, 93, 108, 13, 122, 172, 39, 88, 62, 38, 61, 156, 45, 131, 69, 191, 123, 42, 103, 56, 69, 138, 185, 162, 192, 147, 71, 80, 12, 36, 191, 121, 194, 86, 92, 183, 164, 97, 185, 130, 29, 174, 112, 194, 185, 132, 27, 197, 158, 151, 51, 174}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = reverseLinkedList(head); LLNode::printList(newhead); newhead->clear();</pre>	[104, 50, 154, 40, 15, 171, 56, 114, 67, 90, 46, 179, 152, 177, 139, 45, 18, 55, 38, 158, 8, 157, 143, 37, 16, 83, 173, 82, 156, 51, 124, 25, 68, 51, 194, 105, 44, 17, 97, 0, 150, 66, 71, 81, 11, 180, 148, 160, 127, 93, 108, 13, 122, 172, 39, 88, 62, 38, 61, 156, 45, 131, 69, 191, 123, 42, 103, 56, 69, 138, 185, 162, 192, 147, 71, 80, 12, 36, 191, 121, 194, 86, 92, 183, 164, 97, 185, 130, 29, 174, 112, 194, 185, 132, 27, 197, 158, 151, 51, 174] [174, 51, 151, 158, 197, 27, 132, 185, 194, 112, 174, 29, 130, 185, 97, 164, 183, 92, 86, 194, 121, 191, 36, 12, 80, 71, 147, 192, 162, 185, 138, 69, 56, 103, 42, 123, 191, 69, 131, 45, 156, 61, 38, 62, 88, 39, 172, 122, 13, 108, 93, 127, 160, 148, 180, 11, 81, 71, 66, 150, 0, 97, 17, 44, 105, 194, 51, 68, 25, 124, 51, 156, 82, 173, 83, 16, 37, 143, 157, 8, 158, 38, 55, 18, 45, 139, 177, 152, 179, 46, 90, 67, 114, 56, 171, 15, 40, 154, 50, 104]	[104, 50, 154, 40, 15, 171, 56, 114, 67, 90, 46, 179, 152, 177, 139, 45, 18, 55, 38, 158, 8, 157, 143, 37, 16, 83, 173, 82, 156, 51, 124, 25, 68, 51, 194, 105, 44, 17, 97, 0, 150, 66, 71, 81, 11, 180, 148, 160, 127, 93, 108, 13, 122, 172, 39, 88, 62, 38, 61, 156, 45, 131, 69, 191, 123, 42, 103, 56, 69, 138, 185, 162, 192, 147, 71, 80, 12, 36, 191, 121, 194, 86, 92, 183, 164, 97, 185, 130, 29, 174, 112, 194, 185, 132, 27, 197, 158, 151, 51, 174] [174, 51, 151, 158, 197, 27, 132, 185, 194, 112, 174, 29, 130, 185, 97, 164, 183, 92, 86, 194, 121, 191, 36, 12, 80, 71, 147, 192, 162, 185, 138, 69, 56, 103, 42, 123, 191, 69, 131, 45, 156, 61, 38, 62, 88, 39, 172, 122, 13, 108, 93, 127, 160, 148, 180, 11, 81, 71, 66, 150, 0, 97, 17, 44, 105, 194, 51, 68, 25, 124, 51, 156, 82, 173, 83, 16, 37, 143, 157, 8, 158, 38, 55, 18, 45, 139, 177, 152, 179, 46, 90, 67, 114, 56, 171, 15, 40, 154, 50, 104]

Test	Expected	Got
✓	int arr[] = {106, 14, 71, 71, 166, 172, 128, 128, 52, 113, 58, 184, 70, 73, 37, 83, 71, 46, 133, 100, 37, 186, 199, 69, 79, 71, 70, 13, 155, 90, 60, 82, 180, 125, 108, 160, 74, 93, 72, 152, 106, 11, 174, 164, 168, 6, 9, 41, 58, 65, 141, 22, 103, 49, 114, 197, 175, 131, 109, 135, 124, 19, 76, 109, 130, 15, 120, 12, 11, 77, 88, 56, 127, 162, 67, 133, 162, 22, 94, 122, 53, 132, 167, 111, 138, 61, 169, 64, 98, 159, 58, 147, 137, 50, 193, 190, 173, 28, 35, 108, 138, 110, 184, 82, 114, 199, 137, 156, 155, 167, 165, 134, 193, 22, 173, 176, 46, 61, 196, 137, 151, 69, 67, 87, 161, 72, 60, 70, 67, 109, 149, 16, 38, 127, 15, 12, 107, 48, 184, 185, 43, 178, 14, 188, 61, 79, 189, 144, 27, 41, 114, 182, 118, 76, 89, 126, 124, 195, 180, 133, 118, 96, 61, 95, 127, 40, 62, 102, 130, 174, 47, 131, 187, 103, 88, 109, 153, 110, 184, 72, 178, 41, 93, 112, 24, 156, 180, 150, 114, 172, 43, 170, 46, 166, 109, 193, 13, 17, 190, 153, 80, 106, 199, 163, 106, 39, 85, 56, 174, 189, 61, 72, 154, 149, 59, 110, 139, 189, 99, 40, 84, 180, 23, 13, 9, 192, 163, 88, 1, 3, 149, 132, 36, 34, 120, 40, 48, 32, 91, 166, 42, 155, 30, 111, 140, 6, 189, 169, 50, 15, 144, 67, 145, 169, 49, 135, 49, 76, 0, 105, 90, 60, 75, 88, 150, 88, 122, 11, 158, 12, 43, 182, 152, 112, 65, 149, 14, 194, 146, 120, 114, 178, 177, 159, 105, 45, 169, 152, 150, 60, 99, 39, 73, 101, 162, 173, 127, 122, 157, 116, 139, 57, 101, 121, 45, 133, 151, 171, 186, 186, 116, 4, 173, 118, 103, 70, 133, 158, 119, 47, 142, 111, 110, 96, 68, 118, 153, 178, 174, 130, 176, 186, 23, 193, 40, 175, 107, 184, 168, 185, 56, 167, 169, 68, 42, 75, 26, 174, 92, 46, 18, 85, 131, 164, 15, 116, 197, 88, 143, 8, 115, 199, 173, 142, 139, 162, 62, 7, 33, 2, 4, 54, 22, 135, 194, 34, 17, 90, 154, 71, 6, 156, 76, 66, 172, 157, 39, 92, 68, 169, 117, 166, 86, 153, 106, 63, 142, 190, 163, 106, 39, 85, 56,	[106, 14, 71, 71, 166, 172, 128, 128, 52, 113, 58, 184, 70, 73, 37, 83, 71, 46, 133, 100, 37, 186, 199, 69, 79, 71, 70, 13, 155, 90, 60, 82, 180, 125, 108, 160, 74, 93, 72, 152, 106, 11, 174, 164, 168, 6, 9, 41, 58, 65, 141, 22, 103, 49, 114, 197, 175, 131, 109, 135, 124, 19, 76, 109, 130, 15, 120, 12, 11, 77, 88, 56, 127, 162, 67, 133, 162, 22, 94, 122, 53, 132, 167, 111, 138, 61, 169, 64, 98, 159, 58, 147, 50, 193, 190, 173, 28, 35, 108, 138, 110, 184, 82, 114, 199, 137, 156, 155, 167, 165, 134, 193, 22, 173, 176, 46, 61, 196, 137, 151, 69, 67, 87, 161, 72, 60, 70, 67, 109, 149, 16, 38, 127, 15, 12, 107, 48, 184, 185, 43, 178, 14, 188, 61, 79, 189, 144, 27, 41, 114, 182, 118, 76, 89, 126, 124, 195, 180, 133, 118, 96, 61, 95, 127, 40, 62, 102, 130, 174, 47, 131, 187, 103, 88, 109, 153, 110, 184, 72, 178, 41, 93, 112, 24, 156, 180, 150, 114, 172, 43, 170, 46, 166, 109, 193, 13, 17, 190, 153, 80, 106, 199, 163, 106, 39, 85, 56,

Test	Expected	Got
<pre> 149, 58, 31, 19, 114, 35, 110, 108, 103, 27, 139, 97, 166, 186, 164, 55, 19, 133, 194, 153, 38, 8, 87, 35, 179, 5, 32, 143, 104, 86, 184, 116, 70, 39, 22, 172, 28, 40, 72, 116, 192, 17, 159, 169, 143, 167, 77, 25, 128, 102, 140, 120, 140, 71, 56, 76, 16, 13, 144, 91, 166, 2, 74, 164, 153, 71, 37, 187, 104, 172, 122, 9, 109, 116, 173, 75, 70, 117, 57, 129, 171, 198, 194, 154, 177, 82, 103, 30, 174, 85, 191, 116, 30, 164, 155, 38, 38, 49, 84, 34, 111, 159}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = reverseLinkedList(head); LLNode::printList(newhead); newhead->clear(); </pre>	<pre> 174, 189, 61, 72, 154, 149, 59, 110, 139, 189, 99, 40, 84, 180, 23, 13, 9, 192, 163, 88, 1, 3, 149, 132, 36, 34, 120, 40, 48, 32, 91, 166, 42, 155, 30, 111, 140, 6, 189, 169, 50, 15, 144, 67, 145, 169, 49, 135, 49, 76, 0, 105, 90, 60, 75, 88, 150, 88, 122, 11, 158, 12, 43, 182, 152, 112, 65, 149, 14, 194, 146, 120, 114, 178, 177, 159, 105, 45, 169, 152, 150, 60, 99, 39, 73, 101, 162, 173, 127, 122, 157, 116, 139, 57, 101, 121, 45, 133, 151, 171, 186, 186, 116, 4, 173, 118, 103, 70, 133, 158, 119, 47, 142, 111, 110, 96, 68, 118, 153, 178, 174, 130, 176, 186, 23, 193, 40, 175, 107, 184, 168, 185, 56, 167, 169, 68, 42, 75, 26, 174, 92, 46, 18, 85, 131, 164, 15, 116, 197, 88, 143, 8, 115, 199, 173, 142, 139, 162, 62, 7, 33, 2, 4, 54, 22, 135, 194, 34, 17, 90, 154, 71, 6, 156, 76, 66, 172, 157, 39, 92, 68, 169, 117, 166, 86, 153, 106, 63, 142, 190, 149, 58, 31, 19, 114, 35, 110, 108, 103, 27, 139, 97, 166, 186, 164, 55, 19, 133, 194, 153, 38, 8, 87, </pre>	<pre> 174, 189, 61, 72, 154, 149, 59, 110, 139, 189, 99, 40, 84, 180, 23, 13, 9, 192, 163, 88, 1, 3, 149, 132, 36, 34, 120, 40, 48, 32, 91, 166, 42, 155, 30, 111, 140, 6, 189, 169, 50, 15, 144, 67, 145, 169, 49, 135, 49, 76, 0, 105, 90, 60, 75, 88, 150, 88, 122, 11, 158, 12, 43, 182, 152, 112, 65, 149, 14, 194, 146, 120, 114, 178, 177, 159, 105, 45, 169, 152, 150, 60, 99, 39, 73, 101, 162, 173, 127, 122, 157, 116, 139, 57, 101, 121, 45, 133, 151, 171, 186, 186, 116, 4, 173, 118, 103, 70, 133, 158, 119, 47, 142, 111, 110, 96, 68, 118, 153, 178, 174, 130, 176, 186, 23, 193, 40, 175, 107, 184, 168, 185, 56, 167, 169, 68, 42, 75, 26, 174, 92, 46, 18, 85, 131, 164, 15, 116, 197, 88, 143, 8, 115, 199, 173, 142, 139, 162, 62, 7, 33, 2, 4, 54, 22, 135, 194, 34, 17, 90, 154, 71, 6, 156, 76, 66, 172, 157, 39, 92, 68, 169, 117, 166, 86, 153, 106, 63, 142, 190, 149, 58, 31, 19, 114, 35, 110, 108, 103, 27, 139, 97, 166, 186, 164, 55, 19, 133, 194, 153, 38, 8, 87, </pre>

Test	Expected	Got
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	185, 91, 149, 144, 97, 5, 96, 74, 107, 98, 62, 150, 179, 53, 100, 61, 92, 8, 193, 165, 17, 96, 196, 180, 114, 110, 101, 67, 35, 64, 184, 148, 145, 119, 7, 176, 191, 75, 167, 59, 40, 109, 86, 105, 125, 20, 91, 46, 185, 11, 103, 137, 130, 169, 146, 170, 139, 2, 104, 157, 119, 85, 109, 142, 185, 71, 150, 158, 122, 190, 26, 133, 186, 89, 17, 33, 114, 135, 19, 23, 0, 173, 28, 176, 133, 125, 63, 174, 124, 12, 57, 24, 3, 11, 174, 99, 167, 193, 129, 51, 42, 184, 152, 193, 192, 182, 166, 77, 147, 45, 61, 159, 75, 6, 83, 81, 186, 98, 92, 136, 38, 130, 40, 132, 111, 145, 174, 84, 100, 199, 176, 126, 185, 199, 57, 94, 12, 164, 189, 22, 8, 48, 120, 110, 48, 158, 17, 61, 64, 146, 72, 55, 81, 182, 149, 184, 91, 175, 122, 144, 23, 63, 4, 160, 174, 69, 78, 117, 28, 139, 118, 59, 169, 87, 60, 157, 64, 37, 32, 27, 169, 4, 139, 188, 92, 23, 192, 60, 39, 5, 68, 160, 82, 99, 132, 105, 80, 169, 46, 198, 169, 115, 2, 53, 157, 26, 9, 172, 99, 156, 71, 36, 83, 191, 21, 86, 17, 108,	185, 91, 149, 144, 97, 5, 96, 74, 107, 98, 62, 150, 179, 53, 100, 61, 92, 8, 193, 165, 17, 96, 196, 180, 114, 110, 101, 67, 35, 64, 184, 148, 145, 119, 7, 176, 191, 75, 167, 59, 40, 109, 86, 105, 125, 20, 91, 46, 185, 11, 103, 137, 130, 169, 146, 170, 139, 2, 104, 157, 119, 85, 109, 142, 185, 71, 150, 158, 122, 190, 26, 133, 186, 89, 17, 33, 114, 135, 19, 23, 0, 173, 28, 176, 133, 125, 63, 174, 124, 12, 57, 24, 3, 11, 174, 99, 167, 193, 129, 51, 42, 184, 152, 193, 192, 182, 166, 77, 147, 45, 61, 159, 75, 6, 83, 81, 186, 98, 92, 136, 38, 130, 40, 132, 111, 145, 174, 84, 100, 199, 176, 126, 185, 199, 57, 94, 12, 164, 189, 22, 8, 48, 120, 110, 48, 158, 17, 61, 64, 146, 72, 55, 81, 182, 149, 184, 91, 175, 122, 144, 23, 63, 4, 160, 174, 69, 78, 117, 28, 139, 118, 59, 169, 87, 60, 157, 64, 37, 32, 27, 169, 4, 139, 188, 92, 23, 192, 60, 39, 5, 68, 160, 82, 99, 132, 105, 80, 169, 46, 198, 169, 115, 2, 53, 157, 26, 9, 172, 99, 156, 71, 36, 83, 191, 21, 86, 17, 108,

Test	Expected	Got
	18, 145, 42, 19, 51, 132, 155, 50, 192, 152, 0, 59, 89, 128, 27, 196, 160, 44, 149, 105, 24, 18, 137, 121, 22, 151, 111, 109, 111, 86, 30, 159, 59, 135, 6, 185, 40, 147, 27, 188, 33, 165, 14, 82, 95, 28, 97, 87, 65, 79, 146, 52, 152, 80, 130, 173, 54, 5, 77, 109, 128, 51, 148, 63, 185, 93, 153, 55, 33, 189, 50, 88, 174, 153, 58, 64, 49, 105, 117, 122, 91, 110, 130, 108, 74, 69, 197, 120, 110, 78, 124, 23, 153, 70, 91, 4, 150, 28, 163, 125, 89, 163, 16, 24, 15, 28, 115, 44, 94, 24, 85, 71, 0, 35, 5, 95, 125, 18, 99, 35, 47, 185, 118, 99, 161, 119, 10, 134, 17, 156, 134, 11, 61, 101, 117, 99, 4, 46, 163, 46, 71, 176, 10, 68, 160, 19, 165, 54, 177, 87, 28, 188, 167, 118, 73, 33, 88, 133, 99, 37, 163, 132, 17, 178, 63, 18, 48, 153, 198, 133, 160, 174, 115, 106, 68, 179, 17, 41, 184, 137, 22, 123, 152, 149, 48, 142, 62, 73, 102, 137, 52, 161, 171, 52, 147, 136, 6, 163, 10, 154, 196, 28, 19, 149, 186, 53, 170, 2, 165, 82, 64, 17, 53, 198, 135, 189,	18, 145, 42, 19, 51, 132, 155, 50, 192, 152, 0, 59, 89, 128, 27, 196, 160, 44, 149, 105, 24, 18, 137, 121, 22, 151, 111, 109, 111, 86, 30, 159, 59, 135, 6, 185, 40, 147, 27, 188, 33, 165, 14, 82, 95, 28, 97, 87, 65, 79, 146, 52, 152, 80, 130, 173, 54, 5, 77, 109, 128, 51, 148, 63, 185, 93, 153, 55, 33, 189, 50, 88, 174, 153, 58, 64, 49, 105, 117, 122, 91, 110, 130, 108, 74, 69, 197, 120, 110, 78, 124, 23, 153, 70, 91, 4, 150, 28, 163, 125, 89, 163, 16, 24, 15, 28, 115, 44, 94, 24, 85, 71, 0, 35, 5, 95, 125, 18, 99, 35, 47, 185, 118, 99, 161, 119, 10, 134, 17, 156, 134, 11, 61, 101, 117, 99, 4, 46, 163, 46, 71, 176, 10, 68, 160, 19, 165, 54, 177, 87, 28, 188, 167, 118, 73, 33, 88, 133, 99, 37, 163, 132, 17, 178, 63, 18, 48, 153, 198, 133, 160, 174, 115, 106, 68, 179, 17, 41, 184, 137, 22, 123, 152, 149, 48, 142, 62, 73, 102, 137, 52, 161, 171, 52, 147, 136, 6, 163, 10, 154, 196, 28, 19, 149, 186, 53, 170, 2, 165, 82, 64, 17, 53, 198, 135, 189,

Test	Expected	Got
	49, 97, 5, 147, 60, 82, 198, 122, 41, 85, 117, 15, 26, 168, 172, 71, 15, 169, 172, 73, 44, 178, 134, 35, 108, 1, 51, 12, 21, 10, 48, 139, 139, 94, 14, 0, 153, 73, 73, 0, 149, 111, 103, 125, 92, 24, 3, 38, 110, 77, 75, 131, 106, 33, 110, 109, 92, 28, 49, 124, 38, 12, 132, 137, 197, 190, 17, 22, 62, 141, 13, 107, 48, 113, 169, 92, 163, 115, 50, 56, 185, 7, 63, 59, 187, 193, 155, 183, 111, 67, 84, 104, 81, 151, 131, 14, 15, 177, 197, 190, 65, 143, 25, 156, 137, 116, 98, 90, 127, 114, 88, 189, 88, 23, 65, 106, 95, 27, 93, 155, 4, 199, 99, 151, 53, 192, 125, 2, 98, 158, 155, 129, 100, 55, 119, 89, 128, 88, 60, 145, 169, 85, 132, 70, 76, 167, 25, 70, 199, 190, 52, 184, 188, 144, 53, 147, 50, 162, 130, 197, 125, 173, 147, 45, 71, 180, 173, 83, 174, 68, 77, 96, 199, 115, 167, 193, 156, 148, 175, 33, 98, 99, 96, 62, 54, 125, 131, 155, 64, 179, 66, 63, 192, 7, 149, 60, 136, 78, 172, 115, 10, 168, 158, 63, 28, 117, 81, 24, 40, 89, 67, 57, 184, 89, 160, 13, 10,	49, 97, 5, 147, 60, 82, 198, 122, 41, 85, 117, 15, 26, 168, 172, 71, 15, 169, 172, 73, 44, 178, 134, 35, 108, 1, 51, 12, 21, 10, 48, 139, 139, 94, 14, 0, 153, 73, 73, 0, 149, 111, 103, 125, 92, 24, 3, 38, 110, 77, 75, 131, 106, 33, 110, 109, 92, 28, 49, 124, 38, 12, 132, 137, 197, 190, 17, 22, 62, 141, 13, 107, 48, 113, 169, 92, 163, 115, 50, 56, 185, 7, 63, 59, 187, 193, 155, 183, 111, 67, 84, 104, 81, 151, 131, 14, 15, 177, 197, 190, 65, 143, 25, 156, 137, 116, 98, 90, 127, 114, 88, 189, 88, 23, 65, 106, 95, 27, 93, 155, 4, 199, 99, 151, 53, 192, 125, 2, 98, 158, 155, 129, 100, 55, 119, 89, 128, 88, 60, 145, 169, 85, 132, 70, 76, 167, 25, 70, 199, 190, 52, 184, 188, 144, 53, 147, 50, 162, 130, 197, 125, 173, 147, 45, 71, 180, 173, 83, 174, 68, 77, 96, 199, 115, 167, 193, 156, 148, 175, 33, 98, 99, 96, 62, 54, 125, 131, 155, 64, 179, 66, 63, 192, 7, 149, 60, 136, 78, 172, 115, 10, 168, 158, 63, 28, 117, 81, 24, 40, 89, 67, 57, 184, 89, 160, 13, 10,

Test	Expected	Got
	15, 37, 23, 152, 147, 188, 96, 99, 116, 88, 13, 121, 167, 67, 24, 180, 45, 199, 86, 85, 58, 98, 121, 25, 148, 172, 24, 146, 193, 149, 61, 72, 117, 59, 79, 162, 100, 89, 88, 167, 99, 14, 55, 178, 20, 116, 49, 173, 27, 183, 117, 4, 99, 145, 46, 46, 61, 116, 125, 31, 195, 103, 30, 137, 184, 36, 67, 68]	15, 37, 23, 152, 147, 188, 96, 99, 116, 88, 13, 121, 167, 67, 24, 180, 45, 199, 86, 85, 58, 98, 121, 25, 148, 172, 24, 146, 193, 149, 61, 72, 117, 59, 79, 162, 100, 89, 88, 167, 99, 14, 55, 178, 20, 116, 49, 173, 27, 183, 117, 4, 99, 145, 46, 46, 61, 116, 125, 31, 195, 103, 30, 137, 184, 36, 67, 68]

Passed all tests! ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 10

Chính xác

Điểm 1,00 của
1,00

Class `LLNode` representing a node of singly linked lists is declared as below:

```
class LLNode {
public:
    int val;
    LLNode* next;
    LLNode(); // Constructor: val = 0, next = nullptr
    LLNode(int val, LLNode* next); // Constructor with customized data
}
```

Given a singly linked list head node and a integer `k`.

Your task is to implement a function with following prototype:

```
LLNode* rotateLinkedList(LLNode* head, int k);
```

The function returns head node of the rotated singly linked list obtained after rotate the linked list to the right by `k` places.

Note:

- The `iostream` library has been used and `namespace std` is being used. No other libraries are allowed.
- The constructors and methods of class `LLNode` have been defined fully so you do not need to redefine them.
- You can write helper functions.

For example:

Test	Result
<pre>int arr[] = {2, 4, 6, 6, 3}; int k = 3; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = rotateLinkedList(head, k); LLNode::printList(newhead);</pre>	<pre>[2, 4, 6, 6, 3] [6, 6, 3, 2, 4]</pre>

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)

Reset answer

```
1 ▾ int getLength(LLNode* head) {
2     int length = 0;
3     while (head != nullptr) {
4         head = head->next;
5         length++;
6     }
7 }
```

```
5     }
6 }
7 return length;
8 }
```

```
9
10 LLNode* rotateLinkedList(LLNode* head, int k) {
11     if (head == nullptr || k == 0) {
12         return head;
13     }
14
15     int length = getLength(head);
16     k = k % length;
17
18     if (k == 0) {
19         return head;
20     }
21
22     LLNode* tail = head;
23     for (int i = 1; i < length - k; i++) {
24         tail = tail->next;
25     }
26
27     LLNode* newHead = tail->next;
28     tail->next = nullptr;
29
30     tail = newHead;
31     while (tail->next != nullptr) {
32         tail = tail->next;
33     }
34
35     tail->next = head;
36
37     return newHead;
38 }
39 }
```

	Test	Expected	Got
✓	<pre>int arr[] = {2, 4, 6, 6, 3}; int k = 3; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = rotateLinkedList(head, k); LLNode::printList(newhead);</pre>	[2, 4, 6, 6, 3] [6, 6, 3, 2, 4]	[2, 4, 6, 6, 3] [6, 6, 3, 2, 4]
✓	<pre>int arr[] = {}; int k = 2; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = rotateLinkedList(head, k); LLNode::printList(newhead);</pre>	[] []	[] []
✓	<pre>int arr[] = {0, 4, 2, 5, 1, 0, 6, 4, 8, 6}; int k = 11; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = rotateLinkedList(head, k); LLNode::printList(newhead);</pre>	[0, 4, 2, 5, 1, 0, 6, 4, 8, 6] [6, 0, 4, 2, 5, 1, 0, 6, 4, 8]	[0, 4, 2, 5, 1, 0, 6, 4, 8, 6] [6, 0, 4, 2, 5, 1, 0, 6, 4, 8]

	Test	Expected	Got
✓	<pre> int arr[] = {6, 1, 3, 2, 6, 0, 0, 0, 0, 3, 3, 9, 8, 5, 6, 0, 7, 7, 8, 5, 7, 7, 9, 6, 3, 3, 0, 0, 8, 0, 0, 4, 9, 7, 1, 7, 2, 7, 5, 4, 4, 7, 5, 9, 2, 4, 5, 7, 9, 7, 9, 7, 2, 0, 6, 7, 6, 5, 1, 9, 7, 1, 2, 7, 8, 7, 5, 4, 7, 6, 9, 0, 2, 7, 0, 5, 5, 6, 8, 3, 1, 9, 3, 0, 1, 4, 6, 6, 9, 2, 2, 0, 6, 7, 4, 4, 6, 0, 7, 3, 5, 2, 9, 1, 0, 9}; int k = 35; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = rotateLinkedList(head, k); LLNode::printList(newhead); </pre>	<pre> [6, 1, 3, 2, 6, 0, 0, 0, 0, 3, 3, 9, 3, 3, 9, 8, 5, 6, 0, 7, 7, 8, 5, 7, 7, 9, 6, 3, 3, 0, 0, 8, 0, 0, 4, 9, 7, 1, 7, 2, 7, 5, 4, 4, 7, 5, 9, 2, 4, 5, 7, 9, 7, 9, 7, 2, 0, 6, 7, 6, 5, 1, 9, 7, 1, 2, 7, 8, 7, 5, 4, 7, 6, 9, 0, 2, 7, 0, 5, 5, 6, 8, 3, 1, 9, 3, 0, 1, 4, 6, 6, 9, 2, 2, 0, 6, 7, 4, 4, 6, 0, 7, 3, 5, 2, 9, 1, 0, 9] [0, 2, 7, 0, 5, 5, 6, 8, 3, 1, 9, 3, 0, 1, 4, 6, 6, 9, 2, 2, 0, 6, 7, 4, 4, 6, 0, 7, 3, 5, 2, 9, 1, 0, 9, 6, 1, 3, 2, 6, 0, 0, 0, 3, 3, 9, 8, 5, 6, 0, 7, 7, 8, 5, 7, 7, 9, 6, 3, 3, 0, 0, 8, 0, 0, 4, 9, 7, 1, 7, 2, 7, 5, 4, 4, 7, 5, 9, 2, 4, 5, 7, 9, 7, 9, 7, 2, 0, 6, 7, 6, 5, 1, 9, 7, 1, 2, 7, 8, 7, 5, 4, 7, 6, 9] </pre>	<pre> [6, 1, 3, 2, 6, 0, 0, 0, 3, 3, 9, 8, 5, 6, 0, 7, 7, 8, 5, 7, 7, 9, 6, 3, 3, 0, 0, 8, 0, 0, 4, 9, 7, 1, 7, 2, 7, 5, 4, 4, 7, 5, 9, 2, 4, 5, 7, 9, 7, 9, 7, 2, 0, 6, 7, 6, 5, 1, 9, 7, 1, 2, 7, 8, 7, 5, 4, 7, 6, 9, 0, 2, 7, 0, 5, 5, 6, 8, 3, 1, 9, 3, 0, 1, 4, 6, 6, 9, 2, 2, 0, 6, 7, 4, 4, 6, 0, 7, 3, 5, 2, 9, 1, 0, 9] [0, 2, 7, 0, 5, 5, 6, 8, 3, 1, 9, 3, 0, 1, 4, 6, 6, 9, 2, 2, 0, 6, 7, 4, 4, 6, 0, 7, 3, 5, 2, 9, 1, 0, 9, 6, 1, 3, 2, 6, 0, 0, 0, 3, 3, 9, 8, 5, 6, 0, 7, 7, 8, 5, 7, 7, 9, 6, 3, 3, 0, 0, 8, 0, 0, 4, 9, 7, 1, 7, 2, 7, 5, 4, 4, 7, 5, 9, 2, 4, 5, 7, 9, 7, 9, 7, 2, 0, 6, 7, 6, 5, 1, 9, 7, 1, 2, 7, 8, 7, 5, 4, 7, 6, 9] </pre>

Test	Expected	Got
<pre> ✓ int arr[] = {9, 1, 7, 5, 8, 6, 2, 2, 2, 6, 0, 8, 1, 9, 6, 8, 4, 8, 4, 3, 7, 0, 7, 8, 9, 5, 3, 4, 7, 4, 3, 5, 2, 2, 7, 8, 9, 7, 1, 9, 9, 8, 3, 5, 7, 1, 6, 9, 1, 2, 0, 6, 8, 0, 4, 1, 6, 5, 8, 7, 6, 8, 0, 5, 7, 8, 8, 6, 7, 5, 8, 0, 7, 6, 4, 9, 5, 9, 6, 4, 1, 5, 6, 2, 2, 6, 7, 0, 3, 4, 2, 3, 9, 0, 9, 6, 3, 6, 7, 5, 5, 5, 9, 0, 6, 1, 1, 5, 0, 9, 1, 1, 1, 0, 4, 6, 3, 3, 3, 5, 8, 7, 4, 7, 1, 7, 1, 8, 4, 2, 0, 1, 9, 0, 7, 9, 2, 8, 9, 2, 5, 3, 5, 9, 3, 2, 7, 3, 5, 9, 5, 5, 3, 2, 3, 9, 4, 1, 6, 1, 8, 3, 1, 4, 5, 2, 5, 7, 7, 0, 9, 6, 6, 4, 8, 1, 1, 6, 0, 2, 6, 0, 7, 5, 5, 0, 5, 2, 6, 9, 9, 9, 9, 2, 3, 0, 6, 8, 8, 4, 5, 6, 2, 8, 5, 9, 8, 3, 6, 8, 8, 6, 2, 1, 2, 1, 4, 6, 2, 0, 9, 3, 9, 6, 4, 2, 3, 6, 2, 0, 9, 8, 7, 0, 6, 0, 7, 0, 5, 9, 4, 3, 7, 9, 7, 3, 5, 7, 0, 3, 1, 8, 9, 9, 4, 0, 8, 6, 4, 6, 7, 3, 8, 1, 2, 1, 5, 4, 9, 5, 9, 5, 8, 6, 6, 8, 9, 4, 4, 0, 6, 4, 5, 3, 0, 3, 9, 7, 1, 7, 2, 5, 0, 1, 9, 1, 2, 5, 6, 8, 7, 1, 6, 9, 6, 2, 8, 1, 2, 0, 4, 3, 4, 6, 7, 1, 0, 7, 0, 7, 9, 4, 0, 1, 2, 3, 5, 6, 3, 5, 6, 7, 5, 4, 2, 4, 8, 2, 5, 8, 8, 6, 6, 2, 6, 6, 8, 1, 2, 2, 8, 0, 8, 9, 0, 7, 9, 0, 1, 6, 6, 3, 6, 5, 1, 5, 9, 0, 3, 7, 3, 7, 2, 0, 0, 2, 7, 5, 2, 9, 5, 5, 8, 1, 7, 7, 9, 7, 1, 1, 6, 4, 3, 8, 0, 7, 9, 1, 0, 9, 5, 2, 7, 2, 1, 5, 3, 9, 7, 6, 9, 1, 3, 5, 5, 0, 6, 9, 4, 7, 1, 7, 2, 0, 4, 5, 8, 1, 6, 1, 0, 7, 2, 2, 6, 7, 4, 4, 9, 5, 4, 5, 2, 0, 8, 0, 5, 5, 1, 8, 9, 4, 5, 6, 1, 2, 0, 7, 0, 2, 1, 6, 8, 8, 7, 8, 7, 0, 1, 8, 5, 6, 5, 9, 2, 2, 9, 3, 6, 0, 1, 7, 9, 8, 1, 1, 5, 4, 5, 7, 5, 0, 2, 0, 4, 4, 8, 0, 7, 3}; int k = 196; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; </pre>	<pre> [9, 1, 7, 5, 8, 6, 2, 2, 2, 6, 0, 2, 6, 0, 8, 1, 9, 6, 8, 4, 8, 4, 3, 7, 0, 7, 8, 9, 5, 3, 4, 7, 4, 3, 5, 2, 2, 7, 8, 9, 7, 1, 9, 9, 8, 3, 5, 7, 1, 6, 9, 1, 2, 0, 6, 8, 0, 4, 1, 6, 5, 8, 7, 6, 8, 0, 5, 7, 8, 8, 6, 7, 5, 8, 0, 7, 6, 4, 9, 5, 9, 6, 4, 1, 5, 6, 2, 2, 6, 7, 0, 3, 4, 2, 3, 9, 0, 9, 6, 3, 6, 7, 5, 5, 5, 9, 0, 6, 1, 1, 5, 0, 9, 1, 1, 1, 0, 4, 6, 3, 3, 3, 5, 8, 7, 4, 7, 1, 7, 1, 8, 4, 2, 0, 1, 9, 0, 7, 9, 2, 8, 9, 2, 5, 3, 5, 9, 3, 2, 7, 3, 5, 9, 5, 5, 3, 2, 3, 9, 4, 1, 6, 1, 8, 3, 1, 4, 5, 2, 5, 7, 7, 0, 9, 6, 6, 4, 8, 1, 1, 6, 0, 2, 6, 0, 7, 5, 5, 0, 5, 2, 6, 9, 9, 9, 9, 2, 3, 0, 6, 8, 8, 4, 5, 6, 2, 8, 5, 9, 8, 3, 6, 8, 8, 6, 2, 1, 2, 1, 4, 6, 2, 0, 9, 3, 9, 6, 4, 2, 3, 6, 2, 0, 9, 8, 7, 0, 6, 0, 7, 0, 5, 9, 4, 3, 7, 9, 7, 3, 5, 7, 0, 3, 1, 8, 9, 9, 4, 0, 8, 6, 4, 6, 7, 3, 8, 1, 2, 1, 5, 4, 9, 5, 9, 5, 8, 6, 6, 8, 9, 4, 4, 0, 6, 4, 5, 3, 0, 3, 9, 7, 1, 7, 2, 5, 0, 1, 9, 1, 2, 5, 6, 8, 7, 1, 6, 9, 6, 2, 8, 1, 2, 0, 4, 3, 4, 6, 7, 1, 0, 7, 0, 7, </pre>	<pre> [9, 1, 7, 5, 8, 6, 2, 2, 2, 6, 0, 8, 1, 9, 6, 8, 4, 8, 4, 3, 7, 0, 7, 8, 9, 5, 3, 4, 7, 4, 3, 5, 2, 2, 7, 8, 9, 7, 1, 9, 9, 8, 3, 5, 7, 1, 6, 9, 1, 2, 0, 6, 8, 0, 4, 1, 6, 5, 8, 7, 6, 8, 0, 5, 7, 8, 8, 6, 7, 5, 8, 0, 7, 6, 4, 9, 5, 9, 6, 4, 1, 5, 6, 2, 2, 6, 7, 0, 3, 4, 2, 3, 9, 0, 9, 6, 3, 6, 7, 5, 5, 5, 9, 0, 6, 1, 1, 5, 0, 9, 1, 1, 1, 0, 4, 6, 3, 3, 3, 5, 8, 7, 4, 7, 1, 7, 1, 8, 4, 2, 0, 1, 9, 0, 7, 9, 2, 8, 9, 2, 5, 3, 5, 9, 3, 2, 7, 3, 5, 9, 5, 5, 3, 2, 3, 9, 4, 1, 6, 1, 8, 3, 1, 4, 5, 2, 5, 7, 7, 0, 9, 6, 6, 4, 8, 1, 1, 6, 0, 2, 6, 0, 7, 5, 5, 0, 5, 2, 6, 9, 9, 9, 9, 2, 3, 0, 6, 8, 8, 4, 5, 6, 2, 8, 5, 9, 8, 3, 6, 8, 8, 6, 2, 1, 2, 1, 4, 6, 2, 0, 9, 3, 9, 6, 4, 2, 3, 6, 2, 0, 9, 8, 7, 0, 6, 0, 7, 0, 5, 9, 4, 3, 7, 9, 7, 3, 5, 7, 0, 3, 1, 8, 9, 9, 4, 0, 8, 6, 4, 6, 7, 3, 8, 1, 2, 1, 5, 4, 9, 5, 9, 5, 8, 6, 6, 8, 9, 4, 4, 0, 6, 4, 5, 3, 0, 3, 9, 7, 1, 7, 2, 5, 0, 1, 9, 1, 2, 5, 6, 8, 7, 1, 6, 9, 6, 2, 8, 1, 2, 0, 4, 3, 4, 6, 7, 1, 0, 7, 0, 7, </pre>

Test	Expected	Got
<pre>LLNode* newhead = rotateLinkedList(head, k); LLNode::printList(newhead);</pre>	<pre>9, 4, 0, 1, 2, 3, 5, 6, 3, 5, 6, 7, 5, 4, 2, 4, 8, 2, 5, 8, 8, 6, 6, 2, 6, 6, 8, 1, 2, 2, 8, 0, 8, 9, 0, 7, 9, 0, 1, 6, 6, 3, 6, 5, 1, 5, 9, 0, 3, 7, 3, 7, 2, 0, 0, 2, 7, 5, 2, 9, 5, 5, 8, 1, 7, 7, 9, 7, 1, 1, 6, 4, 3, 8, 0, 7, 9, 1, 0, 9, 5, 2, 7, 2, 1, 5, 3, 9, 7, 6, 9, 1, 3, 5, 5, 0, 6, 9, 4, 7, 1, 7, 2, 0, 4, 5, 8, 1, 6, 1, 0, 7, 2, 2, 6, 7, 4, 4, 9, 5, 4, 5, 2, 0, 8, 0, 5, 5, 1, 8, 9, 4, 5, 6, 1, 2, 0, 7, 0, 2, 1, 6, 8, 8, 7, 8, 7, 0, 1, 8, 5, 6, 5, 9, 2, 2, 9, 3, 6, 0, 1, 7, 9, 8, 1, 1, 5, 4, 5, 7, 5, 0, 2, 0, 4, 4, 8, 0, 7, 3] [6, 2, 8, 1, 2, 0, 4, 3, 4, 6, 7, 1, 0, 7, 0, 7, 9, 4, 0, 1, 2, 3, 5, 6, 3, 5, 6, 7, 5, 4, 2, 4, 8, 2, 5, 8, 8, 6, 6, 2, 6, 6, 8, 1, 2, 2, 8, 0, 8, 9, 0, 7, 9, 0, 1, 6, 6, 3, 6, 5, 1, 5, 9, 0, 3, 7, 3, 7, 2, 0, 0, 2, 7, 5, 2, 9, 5, 5, 8, 1, 7, 7, 9, 7, 1, 1, 6, 4, 3, 8, 0, 7, 9, 1, 0, 9, 5, 2, 7, 2, 1, 5, 3, 9, 7, 6, 9, 1, 3, 5, 5, 0, 6, 9, 4, 7, 1, 7, 2, 0, 4, 5, 8, 1, 6, 1, 0, 7, 2, 2, 6, 7, 4, 4, 9, 5, 4, 5, 2, 0, 8, 0, 5, 5, 1, 8, 9, 4, 5, 6, 1, 2, 0, 7, 0, 2, 1, 6, 8, 8, 7, 8, 7, 0, 1, 8, 5, 6, 5, 9, 2, 2, 9, 3, 6, 0, 1, 7, 9, 8, 1, 1, 5, 4, 5, 7, 5, 0, 2, 0, 4, 4, 8, 0, 7, 3] [6, 2, 8, 1, 2, 0, 4, 3, 4, 6, 7, 1, 0, 7, 0, 7, 9, 4, 0, 1, 2, 3, 5, 6, 3, 5, 6, 7, 5, 4, 2, 4, 8, 2, 5, 8, 8, 6, 6, 2, 6, 6, 8, 1, 2, 2, 8, 0, 8, 9, 0, 7, 9, 0, 1, 6, 6, 3, 6, 5, 1, 5, 9, 0, 3, 7, 3, 7, 2, 0, 0, 2, 7, 5, 2, 9, 5, 5, 8, 1, 7, 7, 9, 7, 1, 1, 6, 4, 3, 8, 0, 7, 9, 1, 0, 9, 5, 2, 7, 2, 1, 5, 3, 9, 7, 6, 9, 1, 3, 5, 5, 0, 6, 9, 4, 7, 1, 7, 2, 0, 4, 5, 8, 1, 6, 1, 0, 7, 2, 2, 6, 7, 4, 4, 9, 5,</pre>	<pre>9, 4, 0, 1, 2, 3, 5, 6, 3, 5, 6, 7, 5, 4, 2, 4, 8, 2, 5, 8, 8, 6, 6, 2, 6, 6, 8, 1, 2, 2, 8, 0, 8, 9, 0, 7, 9, 0, 1, 6, 6, 3, 6, 5, 1, 5, 9, 0, 3, 7, 3, 7, 2, 0, 0, 2, 7, 5, 2, 9, 5, 5, 8, 1, 7, 7, 9, 7, 1, 1, 6, 4, 3, 8, 0, 7, 9, 1, 0, 9, 5, 2, 7, 2, 1, 5, 3, 9, 7, 6, 9, 1, 3, 5, 5, 0, 6, 9, 4, 7, 1, 7, 2, 0, 4, 5, 8, 1, 6, 1, 0, 7, 2, 2, 6, 7, 4, 4, 9, 5,</pre>

Test	Expected	Got
	4, 5, 2, 0, 8, 0, 5, 5, 1, 8, 9, 4, 5, 6, 1, 2, 0, 7, 0, 2, 1, 6, 8, 8, 7, 8, 7, 0, 1, 8, 5, 6, 5, 9, 2, 2, 9, 3, 6, 0, 1, 7, 9, 8, 1, 1, 5, 4, 5, 7, 5, 0, 2, 0, 4, 4, 8, 0, 7, 3, 9, 1, 7, 5, 8, 6, 2, 2, 2, 6, 0, 8, 1, 9, 6, 8, 4, 8, 4, 3, 7, 0, 7, 8, 9, 5, 3, 4, 7, 4, 3, 5, 2, 2, 7, 8, 9, 7, 1, 9, 9, 8, 3, 5, 7, 1, 6, 9, 1, 2, 0, 6, 8, 0, 4, 1, 6, 5, 8, 7, 6, 8, 0, 5, 7, 8, 8, 6, 7, 5, 8, 0, 7, 6, 4, 9, 5, 9, 6, 4, 1, 5, 6, 2, 2, 6, 7, 0, 3, 4, 2, 3, 9, 0, 9, 6, 3, 6, 7, 5, 5, 5, 9, 0, 6, 1, 1, 5, 0, 9, 1, 1, 1, 0, 4, 6, 3, 3, 3, 5, 8, 7, 4, 7, 1, 7, 1, 8, 4, 2, 0, 1, 9, 0, 7, 9, 2, 8, 9, 2, 5, 3, 5, 9, 3, 2, 7, 3, 5, 9, 5, 5, 3, 2, 3, 9, 4, 1, 6, 1, 8, 3, 1, 4, 5, 2, 5, 7, 7, 0, 9, 6, 6, 4, 8, 1, 1, 6, 0, 2, 6, 0, 7, 5, 5, 0, 5, 2, 6, 9, 9, 9, 9, 2, 3, 0, 6, 8, 8, 4, 5, 6, 2, 8, 5, 9, 8, 3, 6, 8, 8, 6, 2, 1, 2, 1, 4, 6, 2, 0, 9, 3, 9, 6, 4, 2, 3, 6, 2, 0, 9, 8, 7, 0, 6, 0, 7, 0, 5, 9, 4, 3, 7, 9, 7, 3, 5, 7, 0, 3, 1, 8, 9, 9, 4, 0, 8, 6, 4, 6,	4, 5, 2, 0, 8, 0, 5, 5, 1, 8, 9, 4, 5, 6, 1, 2, 0, 7, 0, 2, 1, 6, 8, 8, 7, 8, 7, 0, 1, 8, 5, 6, 5, 9, 2, 2, 9, 3, 6, 0, 1, 7, 9, 8, 1, 1, 5, 4, 5, 7, 5, 0, 2, 0, 4, 4, 8, 0, 7, 3, 9, 1, 7, 5, 8, 6, 2, 2, 2, 6, 0, 8, 1, 9, 6, 8, 4, 8, 4, 3, 7, 0, 7, 8, 9, 5, 3, 4, 7, 4, 3, 5, 2, 2, 7, 8, 9, 7, 1, 9, 9, 8, 3, 5, 7, 1, 6, 9, 1, 2, 0, 6, 8, 0, 4, 1, 6, 5, 8, 7, 6, 8, 0, 5, 7, 8, 8, 6, 7, 5, 8, 0, 7, 6, 4, 9, 5, 9, 6, 4, 1, 5, 6, 2, 2, 6, 7, 0, 3, 4, 2, 3, 9, 0, 9, 6, 3, 6, 7, 5, 5, 5, 9, 0, 6, 1, 1, 5, 0, 9, 1, 1, 1, 0, 4, 6, 3, 3, 3, 5, 8, 7, 4, 7, 1, 7, 1, 8, 4, 2, 0, 1, 9, 0, 7, 9, 2, 8, 9, 2, 5, 3, 5, 9, 3, 2, 7, 3, 5, 9, 5, 5, 3, 2, 3, 9, 4, 1, 6, 1, 8, 3, 1, 4, 5, 2, 5, 7, 7, 0, 9, 6, 6, 4, 8, 1, 1, 6, 0, 2, 6, 0, 7, 5, 5, 0, 5, 2, 6, 9, 9, 9, 9, 2, 3, 0, 6, 8, 8, 4, 5, 6, 2, 8, 5, 9, 8, 3, 6, 8, 8, 6, 2, 1, 2, 1, 4, 6, 2, 0, 9, 3, 9, 6, 4, 2, 3, 6, 2, 0, 9, 8, 7, 0, 6, 0, 7, 0, 5, 9, 4, 3, 7, 9, 7, 3, 5, 7, 0, 3, 1, 8, 9, 9, 4, 0, 8, 6, 4, 6,

Test	Expected	Got
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Test	Expected	Got
<pre> 4, 9, 7, 0, 8, 0, 4, 3, 0, 9, 7, 7, 8, 1, 3, 7, 1, 5, 4, 7, 6, 3, 8, 6, 7, 5, 4, 2, 0, 6, 7, 4, 7, 4, 6, 1, 3, 7, 2, 4, 4, 0, 1, 2, 9, 1, 9, 5, 7, 1, 7, 7, 3, 2, 9, 8, 2, 4, 4, 9, 0, 5, 6, 7, 9, 1, 8, 3, 8, 2, 3, 2, 4, 6, 2, 0, 7, 5, 9, 5, 2, 2, 6, 8, 6, 9, 9, 3, 0, 4, 1, 5, 2, 3, 9, 3, 9, 1, 7, 3, 1, 2, 8, 2, 0, 4, 1, 1, 8, 4, 8, 2, 0, 0, 6, 6, 5, 1, 3, 5, 0, 6, 1, 6, 1, 7, 9, 2, 3, 5, 2, 9, 6, 8, 3, 6, 9, 4, 1, 0, 8, 7, 2, 5, 7, 4, 4, 0, 2, 0, 6, 6, 4, 9, 1, 8, 1, 1, 8, 8, 3, 5, 2, 5, 5, 5, 1, 8, 3, 7, 8, 8, 1, 1, 5, 5, 1, 9, 7, 2, 2, 7, 2, 4, 4, 1, 0, 0, 0, 8, 7, 9, 4, 0, 0, 3, 5, 5, 1, 9, 5, 9, 3, 7, 5, 9, 0, 9, 8, 2, 7, 2, 0, 5, 2, 5, 1, 6, 0, 8, 5, 2, 4, 9, 0, 8, 3, 9, 1, 9, 9, 2, 5, 5, 3, 0, 5, 4, 4, 5, 3, 2, 0, 2, 4, 3, 5, 1, 9, 3, 0, 8, 1, 4, 4, 9, 9, 0, 9, 9, 1, 3, 0, 1, 1, 9, 6, 9, 2, 4, 4, 2, 5, 2, 3, 9, 6, 2, 3, 0, 8, 3, 2, 8, 8, 3, 0, 5, 1, 8, 8, 2, 9, 3, 7, 7, 4, 9, 6, 2, 0, 0, 6, 8, 4, 6, 7, 7, 8, 0, 7, 7, 5, 6, 5, 6, 2, 8, 3, 2, 7, 5, 7, 4, 0, 0, 2, 2, 6, 7, 8, 5, 9, 3, 3, 0, 6, 5, 4, 5, 9, 4, 1, 2, 9, 7, 6, 2, 0, 2, 3, 3, 8, 0, 1, 8, 4, 7, 1, 0, 6, 4, 1, 0, 4, 0, 4, 8, 9, 5, 1, 0, 5, 2, 4, 5, 6, 3, 5, 2, 2, 9, 6, 0, 2, 1, 2, 9, 7, 8, 3, 1, 6, 0, 2, 2, 7, 8, 9, 3, 4, 5, 7, 8, 4, 0, 7, 2, 8}; int k = 389; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = rotateLinkedList(head, k); LLNode::printList(newhead); </pre>	<pre> 0, 4, 6, 9, 8, 6, 5, 2, 7, 9, 0, 1, 7, 5, 5, 9, 5, 6, 8, 2, 8, 6, 7, 4, 5, 9, 0, 2, 6, 8, 4, 3, 5, 9, 9, 1, 0, 3, 2, 3, 5, 9, 9, 1, 0, 3, 2, 3, 8, 1, 0, 5, 9, 6, 8, 9, 0, 9, 9, 4, 7, 5, 1, 7, 0, 3, 8, 9, 9, 1, 0, 3, 0, 4, 2, 6, 6, 9, 1, 2, 5, 2, 3, 5, 1, 5, 0, 1, 6, 4, 8, 8, 4, 9, 5, 6, 5, 4, 2, 5, 9, 7, 3, 0, 6, 6, 8, 8, 7, 1, 0, 5, 3, 5, 5, 9, 4, 8, 4, 6, 9, 3, 8, 3, 4, 9, 6, 8, 9, 7, 3, 4, 1, 0, 1, 2, 0, 0, 8, 1, 8, 5, 1, 5, 1, 0, 1, 1, 4, 0, 8, 7, 2, 8, 0, 0, 9, 6, 2, 1, 5, 1, 3, 4, 2, 5, 2, 0, 2, 5, 8, 1, 1, 6, 4, 6, 5, 8, 5, 9, 5, 8, 1, 8, 5, 4, 2, 0, 5, 5, 0, 1, 9, 7, 1, 1, 7, 6, 1, 8, 8, 4, 6, 4, 4, 3, 1, 0, 3, 3, 7, 9, 7, 9, 5, 1, 5, 1, 5, 2, 0, 3, 1, 4, 9, 2, 6, 5, 3, 2, 7, 8, 1, 6, 7, 0, 2, 7, 6, 1, 5, 8, 3, 5, 0, 4, 7, 9, 8, 8, 2, 6, 9, 9, 7, 8, 3, 8, 8, 0, 8, 6, 4, 5, 7, 2, 0, 7, 3, 5, 5, 3, 5, 6, 2, 3, 3, 1, 2, 4, 4, 4, 5, 5, 4, 9, 7, 0, 8, 0, 4, 3, 0, 9, 7, 7, 8, 1, 3, 7, 1, 5, 4, 7, 6, 3, 8, 6, 7, 5, 4, 2, 0, 6, 7, 4, 7, 4, 6, 1, 3, 7, 2, 4, 4, 0, 1, 2, </pre>	<pre> 0, 4, 6, 9, 8, 6, 5, 2, 7, 9, 0, 1, 7, 5, 5, 9, 5, 6, 8, 2, 8, 6, 7, 4, 5, 9, 0, 2, 6, 8, 4, 3, 5, 9, 9, 1, 0, 3, 2, 3, 8, 1, 0, 5, 9, 6, 8, 9, 0, 9, 9, 4, 7, 5, 1, 7, 0, 3, 8, 9, 9, 1, 0, 3, 0, 4, 2, 6, 6, 9, 1, 2, 5, 2, 3, 5, 1, 5, 0, 1, 6, 4, 8, 8, 4, 9, 5, 6, 5, 4, 2, 5, 9, 7, 3, 0, 6, 6, 8, 8, 7, 1, 0, 5, 3, 5, 5, 9, 4, 8, 4, 6, 9, 3, 8, 3, 4, 9, 6, 8, 9, 7, 3, 4, 1, 0, 1, 2, 0, 0, 8, 1, 8, 5, 1, 5, 1, 0, 1, 1, 4, 0, 8, 7, 2, 8, 0, 0, 9, 6, 2, 1, 5, 1, 3, 4, 2, 5, 2, 0, 2, 5, 8, 1, 1, 6, 4, 6, 5, 8, 5, 9, 5, 8, 1, 8, 5, 4, 2, 0, 5, 5, 0, 1, 9, 7, 1, 1, 7, 6, 1, 8, 8, 4, 6, 4, 4, 3, 1, 0, 3, 3, 7, 9, 7, 9, 5, 1, 5, 1, 5, 2, 0, 3, 1, 4, 9, 2, 6, 5, 3, 2, 7, 8, 1, 6, 7, 0, 2, 7, 6, 1, 5, 8, 3, 5, 0, 4, 7, 9, 8, 8, 2, 6, 9, 9, 7, 8, 3, 8, 8, 0, 8, 6, 4, 5, 7, 2, 0, 7, 3, 5, 5, 3, 5, 6, 2, 3, 3, 1, 2, 4, 4, 4, 5, 5, 4, 9, 7, 0, 8, 0, 4, 3, 0, 9, 7, 7, 8, 1, 3, 7, 1, 5, 4, 7, 6, 3, 8, 6, 7, 5, 4, 2, 0, 6, 7, 4, 7, 4, 6, 1, 3, 7, 2, 4, 4, 0, 1, 2, </pre>

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	4, 0, 4, 8, 9, 5, 1, 0, 5, 2, 4, 5, 6, 3, 5, 2, 2, 9, 6, 0, 2, 1, 2, 9, 7, 8, 3, 1, 6, 0, 2, 2, 7, 8, 9, 3, 4, 5, 7, 8, 4, 0, 7, 2, 8] [6, 3, 8, 6, 7, 5, 4, 2, 0, 6, 7, 4, 7, 4, 6, 1, 3, 7, 2, 4, 4, 0, 1, 2, 9, 1, 9, 5, 7, 1, 7, 7, 3, 2, 9, 8, 2, 4, 4, 9, 0, 5, 6, 7, 9, 1, 8, 3, 8, 2, 3, 2, 4, 6, 2, 0, 7, 5, 9, 5, 2, 2, 6, 8, 6, 9, 9, 3, 0, 4, 1, 5, 2, 3, 9, 3, 9, 1, 7, 3, 1, 2, 8, 2, 0, 4, 1, 1, 8, 4, 8, 2, 0, 0, 6, 6, 5, 1, 3, 5, 0, 6, 1, 6, 1, 7, 9, 2, 3, 5, 2, 9, 6, 8, 3, 6, 9, 4, 1, 0, 8, 7, 2, 5, 7, 4, 4, 0, 2, 0, 6, 6, 4, 9, 1, 8, 1, 1, 8, 8, 3, 5, 2, 5, 5, 5, 1, 8, 3, 7, 8, 8, 1, 1, 5, 5, 1, 9, 7, 2, 2, 7, 2, 4, 4, 1, 0, 0, 0, 8, 7, 9, 4, 0, 0, 3, 5, 5, 1, 9, 5, 9, 3, 7, 5, 9, 0, 9, 8, 2, 7, 2, 0, 5, 2, 5, 1, 6, 0, 8, 5, 2, 4, 9, 0, 8, 3, 9, 1, 9, 9, 2, 5, 5, 3, 0, 5, 4, 4, 5, 3, 2, 0, 2, 4, 3, 5, 1, 9, 3, 0, 8, 1, 4, 4, 9, 9, 0, 9, 9, 1, 3, 0, 1, 1, 9, 6, 9, 2, 4, 4, 2, 5, 2, 3, 9, 6, 2, 3, 0, 8, 3, 2, 8, 8, 3, 0, 5, 1, 8, 8, 2,	4, 0, 4, 8, 9, 5, 1, 0, 5, 2, 4, 5, 6, 3, 5, 2, 2, 9, 6, 0, 2, 1, 2, 9, 7, 8, 3, 1, 6, 0, 2, 2, 7, 8, 9, 3, 4, 5, 7, 8, 4, 0, 7, 2, 8] [6, 3, 8, 6, 7, 5, 4, 2, 0, 6, 7, 4, 7, 4, 6, 1, 3, 7, 2, 4, 4, 0, 1, 2, 9, 1, 9, 5, 7, 1, 7, 7, 3, 2, 9, 8, 2, 4, 4, 9, 0, 5, 6, 7, 9, 1, 8, 3, 8, 2, 3, 2, 4, 6, 2, 0, 7, 5, 9, 5, 2, 2, 6, 8, 6, 9, 9, 3, 0, 4, 1, 5, 2, 3, 9, 3, 9, 1, 7, 3, 1, 2, 8, 2, 0, 4, 1, 1, 8, 4, 8, 2, 0, 0, 6, 6, 5, 1, 3, 5, 0, 6, 1, 6, 1, 7, 9, 2, 3, 5, 2, 9, 6, 8, 3, 6, 9, 4, 1, 0, 8, 7, 2, 5, 7, 4, 4, 0, 2, 0, 6, 6, 4, 9, 1, 8, 1, 1, 8, 8, 3, 5, 2, 5, 5, 5, 1, 8, 3, 7, 8, 8, 1, 1, 5, 5, 1, 9, 7, 2, 2, 7, 2, 4, 4, 1, 0, 0, 0, 8, 7, 9, 4, 0, 0, 3, 5, 5, 1, 9, 5, 9, 3, 7, 5, 9, 0, 9, 8, 2, 7, 2, 0, 5, 2, 5, 1, 6, 0, 8, 5, 2, 4, 9, 0, 8, 3, 9, 1, 9, 9, 2, 5, 5, 3, 0, 5, 4, 4, 5, 3, 2, 0, 2, 4, 3, 5, 1, 9, 3, 0, 8, 1, 4, 4, 9, 9, 0, 9, 9, 1, 3, 0, 1, 1, 9, 6, 9, 2, 4, 4, 2, 5, 2, 3, 9, 6, 2, 3, 0, 8, 3, 2, 8, 8, 3, 0, 5, 1, 8, 8, 2,

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<pre> 0, 8, 4, 1, 7, 6, 8, 9, 7, 2, 4, 9, 1, 3, 7, 9, 8, 6, 0, 4, 3, 2, 6, 9, 3, 0, 8, 0, 0, 2, 4, 4, 9, 3, 4, 9, 1, 4, 2, 2, 9, 5, 7, 8, 9, 7, 0, 9, 5, 4, 7, 2, 1, 3, 3, 2, 7, 6, 0, 0, 1, 2, 7, 3, 2, 8, 7, 1, 0, 6, 8, 8, 8, 2, 8, 9, 5, 6, 5, 0, 5, 9, 7, 2, 2, 3, 9, 3, 1, 8, 6, 9, 1, 1, 4, 9, 0, 9, 1, 3, 1, 9, 1, 0, 5, 3, 6, 9, 0, 3, 6, 5, 6, 1, 0, 7, 4, 2, 3, 3, 1, 4, 7, 3, 8, 2, 5, 6, 8, 4, 8, 6, 7, 4, 8, 3, 7, 4, 7, 1, 4, 0, 3, 8, 1, 0, 2, 3, 4, 9, 1, 5, 0, 6, 3, 4, 9, 4, 3, 3, 6, 3, 6, 8, 1, 9, 7, 4, 5, 7, 4, 9, 5, 0, 9, 7, 4, 1, 8, 0, 7, 5, 0, 2, 7, 8, 0, 9, 4, 5, 2, 0, 9, 6, 4, 7, 0}; int k = 990; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = rotateLinkedList(head, k); LLNode::printList(newhead); </pre>	<pre> 1, 3, 3, 3, 5, 5, 0, 6, 8, 5, 4, 7, 7, 8, 0, 3, 5, 9, 2, 8, 7, 8, 4, 5, 7, 6, 4, 9, 7, 6, 1, 1, 1, 6, 0, 1, 0, 7, 5, 1, 9, 9, 2, 7, 4, 9, 9, 0, 6, 3, 1, ...snip... 2, 7, 3, 3, 1, 3, 7, 2, 1, 8, 4, 2, 6, 7, 2, 5, 3, 8, 6, 8, 4, 0, 7, 5, 6, 1, 4, 5, 2, 6, 5, 2, 9, 1, 5, 1, 3, 8, 9, 0, 7, 7, 4, 9, 4, 4, 7, 0, 0, 9, 0, 7, 9, 5, 4, 8, 5, 9, 1, 8, 8, 9, 7, 1, 6, 2, 8, 9, 0, 4, 1, 8, 1, 3, 3, 1, 6, 4, 7, 0, 0, 3, 2, 5, 9, 0, 5, 9, 7, 1, 1, 9, 6, 3, 4, 3, 6, 7, 4, 4, 7, 4, 7, 8, 6, 5, 5, 1, 5, 9, 8, 4, 6, 9, 6, 8, 5, 0, 8, 2, 9, 1, 3, 7, 9, 5, 2, 1, 8, 0, 5, 9, 4, 9, 5, 6, 3, 2, 8, 2, 8, 5, 8, 8, 7, 1, 4, 4, 6, 2, 6, 1, 7, 0, 4, 9, 9, 6, 3, 1, 3, 3, 3, 5, 8, 7, 2, 5, 1, 3, 8, 2, 8, 1, 5, 2, 0, 6, 6, 5, 5, 4, 5, 7, 9, 3, 5, 3, 1, 6, 9, 0, 9, 5, 8, 8, 4, 6, 0, 9, 4, 0, 8, 1, 2, 3, 9, 9, 6, 9, 2, 8, 6, 5, 4, 9, 2, 4, 2, 3, 1, 8, 6, 8, 3, 3, 5, 4, 7, 1, 1, 2, 7, 5, 8, 7, 7, 2, 3, 5, 3, 4, 7, 2, 8, 5, 6, 9, 7, 1, 4, 0, 0, 3, 6, 3, 0, 4, 4, 0, 4, 3, 7, 1, 8, </pre>	<pre> 1, 3, 3, 3, 5, 5, 0, 6, 8, 5, 4, 7, 7, 8, 0, 3, 5, 9, 2, 8, 7, 8, 4, 5, 7, 6, 4, 9, 7, 6, 1, 1, 1, 6, 0, 1, 0, 7, 5, 1, 9, 9, 2, 7, 4, 9, 9, 0, 6, 3, 1, ...snip... 2, 7, 3, 3, 1, 3, 7, 2, 1, 8, 4, 2, 6, 7, 2, 5, 3, 8, 6, 8, 4, 0, 7, 5, 6, 1, 4, 5, 2, 6, 5, 2, 9, 1, 5, 1, 3, 8, 9, 0, 7, 7, 4, 9, 4, 4, 7, 0, 0, 9, 0, 7, 9, 5, 4, 8, 5, 9, 1, 8, 8, 9, 7, 1, 6, 2, 8, 9, 0, 4, 1, 8, 1, 3, 3, 1, 6, 4, 7, 0, 0, 3, 2, 5, 9, 0, 5, 9, 7, 1, 1, 9, 6, 3, 4, 3, 6, 7, 4, 4, 7, 4, 7, 8, 6, 5, 5, 1, 5, 9, 8, 4, 6, 9, 6, 8, 5, 0, 8, 2, 9, 1, 3, 7, 9, 5, 2, 1, 8, 0, 5, 9, 4, 9, 5, 6, 3, 2, 8, 2, 8, 5, 8, 8, 7, 1, 4, 4, 6, 2, 6, 1, 7, 0, 4, 9, 9, 6, 3, 1, 3, 3, 3, 5, 8, 7, 2, 5, 1, 3, 8, 2, 8, 1, 5, 2, 0, 6, 6, 5, 5, 4, 5, 7, 9, 3, 5, 3, 1, 6, 9, 0, 9, 5, 8, 8, 4, 6, 0, 9, 4, 0, 8, 1, 2, 3, 9, 9, 6, 9, 2, 8, 6, 5, 4, 9, 2, 4, 2, 3, 1, 8, 6, 8, 3, 3, 5, 4, 7, 1, 1, 2, 7, 5, 8, 7, 7, 2, 3, 5, 3, 4, 7, 2, 8, 5, 6, 9, 7, 1, 4, 0, 0, 3, 6, 3, 0, 4, 4, 0, 4, 3, 7, 1, 8, </pre>

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	9, 0, 4, 3, 5, 0, 9, 7, 9, 3, 0, 2, 9, 3, 0, 8, 0, 0, 5, 2, 8, 5, 8, 0, 6, 3, 8, 7, 3, 6, 2, 3, 7, 8, 5, 5, 4, 9, 5, 5, 3, 7, 7, 0, 0, 0, 0, 5, 4, 6, 1, 2, 3, 2, 2, 9, 1, 1, 5, 9, 8, 8, 9, 9, 4, 4, 1, 8, 2, 9, 9, 0, 8, 0, 2, 2, 3, 9, 3, 3, 0, 1, 4, 7, 6, 6, 0, 6, 4, 1, 2, 8, 7, 9, 2, 7, 0, 7, 9, 8, 0, 8, 7, 4, 4, 2, 3, 5, 0, 2, 7, 9, 5, 8, 5, 9, 9, 1, 1, 7, 7, 6, 3, 6, 3, 1, 3, 9, 8, 5, 6, 1, 3, 6, 1, 1, 7, 0, 4, 5, 7, 6, 2, 8, 8, 2, 7, 7, 1, 4, 4, 3, 7, 9, 0, 1, 6, 0, 3, 1, 2, 6, 8, 2, 2, 1, 1, 0, 6, 9, 1, 4, 7, 4, 3, 4, 6, 1, 6, 5, 8, 4, 1, 2, 8, 5, 7, 6, 7, 8, 5, 5, 7, 5, 4, 1, 4, 1, 8, 5, 8, 0, 2, 1, 1, 7, 2, 3, 4, 6, 3, 3, 5, 5, 5, 4, 1, 2, 3, 1, 6, 5, 5, 9, 6, 9, 0, 1, 5, 6, 8, 8, 5, 5, 9, 0, 1, 8, 4, 5, 8, 6, 4, 5, 1, 4, 0, 1, 0, 2, 2, 6, 7, 9, 0, 7, 0, 5, 0, 4, 0, 1, 4, 0, 1, 0, 9, 9, 9, 1, 9, 7, 1, 5, 9, 2, 9, 9, 7, 0, 6, 0, 5, 5, 9, 7, 6, 4, 0, 4, 4, 4, 1, 5, 6, 9, 3, 1, 8, 3, 0, 0, 4, 5, 6, 3, 6, 9, 2, 1, 0, 4, 6, 3, 6, 5, 9, 0, 5, 5,	9, 0, 4, 3, 5, 0, 9, 7, 9, 3, 0, 2, 9, 3, 0, 8, 0, 0, 5, 2, 8, 5, 8, 0, 6, 3, 8, 7, 3, 6, 2, 3, 7, 8, 5, 5, 4, 9, 5, 5, 3, 7, 7, 0, 0, 0, 0, 5, 4, 6, 1, 2, 3, 2, 2, 9, 1, 1, 5, 9, 8, 8, 9, 9, 4, 4, 1, 8, 2, 9, 9, 0, 8, 0, 2, 2, 3, 9, 3, 3, 0, 1, 4, 7, 6, 6, 0, 6, 4, 1, 2, 8, 7, 9, 2, 7, 0, 7, 9, 8, 0, 8, 7, 4, 4, 2, 3, 5, 0, 2, 7, 9, 5, 8, 5, 9, 9, 1, 1, 7, 7, 6, 3, 6, 3, 1, 3, 9, 8, 5, 6, 1, 3, 6, 1, 1, 7, 0, 4, 5, 7, 6, 2, 8, 8, 2, 7, 7, 1, 4, 4, 3, 7, 9, 0, 1, 6, 0, 3, 1, 2, 6, 8, 2, 2, 1, 1, 0, 6, 9, 1, 4, 7, 4, 3, 4, 6, 1, 6, 5, 8, 4, 1, 2, 8, 5, 7, 6, 7, 8, 5, 5, 7, 5, 4, 1, 4, 1, 8, 5, 8, 0, 2, 1, 1, 7, 2, 3, 4, 6, 3, 3, 5, 5, 5, 4, 1, 2, 3, 1, 6, 5, 5, 9, 6, 9, 0, 1, 5, 6, 8, 8, 5, 5, 9, 0, 1, 8, 4, 5, 8, 6, 4, 5, 1, 4, 0, 1, 0, 2, 2, 6, 7, 9, 0, 7, 0, 5, 0, 4, 0, 1, 4, 0, 1, 0, 9, 9, 9, 1, 9, 7, 1, 5, 9, 2, 9, 9, 7, 0, 6, 0, 5, 5, 9, 7, 6, 4, 0, 4, 4, 4, 1, 5, 6, 9, 3, 1, 8, 3, 0, 0, 4, 5, 6, 3, 6, 9, 2, 1, 0, 4, 6, 3, 6, 5, 9, 0, 5, 5,

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	8, 4, 0, 2, 4, 3, 5, 2, 9, 3, 9, 9, 6, 4, 1, 1, 2, 9, 1, 8, 4, 3, 9, 7, 6, 9, 4, 3, 5, 3, 7, 0, 7, 7, 9, 4, 8, 7, 5, 7, 2, 6, 1, 6, 6, 2, 2, 2, 6, 4, 5, 1, 4, 5, 6, 5, 7, 5, 5, 9, 7, 8, 6, 1, 1, 8, 1, 2, 8, 9, 4, 8, 3, 0, 6, 9, 1, 6, 7, 7, 1, 6, 6, 6, 7, 4, 3, 2, 9, 2, 5, 5, 8, 9, 4, 7, 5, 0, 1, 9, 2, 0, 0, 8, 9, 0, 8, 7, 8, 3, 6, 6, 2, 6, 5, 2, 0, 5, 6, 1, 9, 2, 1, 7, 2, 7, 1, 6, 5, 4, 3, 1, 0, 3, 4, 1, 1, 3, 4, 9, 8, 1, 6, 9, 4, 7, 1, 8, 4, 4, 9, 4, 3, 4, 0, 6, 0, 5, 9, 4, 4, 2, 8, 4, 3, 5, 8, 7, 4, 1, 7, 4, 6, 3, 1, 5, 6, 4, 2, 6, 4, 6, 1, 1, 2, 3, 4, 5, 6, 5, 3, 8, 1, 8, 8, 9, 5, 4, 3, 3, 5, 4, 3, 7, 7, 0, 2, 8, 2, 5, 0, 4, 1, 6, 0, 9, 5, 5, 6, 3, 8, 4, 9, 8, 8, 0, 9, 6, 3, 8, 8, 2, 4, 1, 5, 2, 1, 2, 3, 4, 1, 2, 9, 4, 8, 6, 6, 9, 9, 0, 8, 5, 8, 5, 0, 2, 4, 8, 8, 6, 4, 9, 5, 5, 8, 9, 1, 5, 7, 8, 5, 5, 4, 0, 3, 3, 2, 2, 3, 5, 1, 1, 6, 4, 4, 9, 3, 7, 3, 6, 0, 9, 3, 3, 4, 4, 7, 9, 9, 8, 0, 1, 2, 4, 6, 6, 1, 9, 7, 5, 3, 1, 6, 3, 6, 3, 3, 8, 1, 3,	8, 4, 0, 2, 4, 3, 5, 2, 9, 3, 9, 9, 6, 4, 1, 1, 2, 9, 1, 8, 4, 3, 9, 7, 6, 9, 4, 3, 5, 3, 7, 0, 7, 7, 9, 4, 8, 7, 5, 7, 2, 6, 1, 6, 6, 2, 2, 2, 6, 4, 5, 1, 4, 5, 6, 5, 7, 5, 5, 9, 7, 8, 6, 1, 1, 8, 1, 2, 8, 9, 4, 8, 3, 0, 6, 9, 1, 6, 7, 7, 1, 6, 6, 6, 7, 4, 3, 2, 9, 2, 5, 5, 8, 9, 4, 7, 5, 0, 1, 9, 2, 0, 0, 8, 9, 0, 8, 7, 8, 3, 6, 6, 2, 6, 5, 2, 0, 5, 6, 1, 9, 2, 1, 7, 2, 7, 1, 6, 5, 4, 3, 1, 0, 3, 4, 1, 1, 3, 4, 9, 8, 1, 6, 9, 4, 7, 1, 8, 4, 4, 9, 4, 3, 4, 0, 6, 0, 5, 9, 4, 4, 2, 8, 4, 3, 5, 8, 7, 4, 1, 7, 4, 6, 3, 1, 5, 6, 4, 2, 6, 4, 6, 1, 1, 2, 3, 4, 5, 6, 5, 3, 8, 1, 8, 8, 9, 5, 4, 3, 3, 5, 4, 3, 7, 7, 0, 2, 8, 2, 5, 0, 4, 1, 6, 0, 9, 5, 5, 6, 3, 8, 4, 9, 8, 8, 0, 9, 6, 3, 8, 8, 2, 4, 1, 5, 2, 1, 2, 3, 4, 1, 2, 9, 4, 8, 6, 6, 9, 9, 0, 8, 5, 8, 5, 0, 2, 4, 8, 8, 6, 4, 9, 5, 5, 8, 9, 1, 5, 7, 8, 5, 5, 4, 0, 3, 3, 2, 2, 3, 5, 1, 1, 6, 4, 4, 9, 3, 7, 3, 6, 0, 9, 3, 3, 4, 4, 7, 9, 9, 8, 0, 1, 2, 4, 6, 6, 1, 9, 7, 5, 3, 1, 6, 3, 6, 3, 3, 8, 1, 3,

Test	Expected	Got
	4, 7, 9, 7, 3, 4, 3, 7, 1, 4, 9, 8, 3, 6, 2, 2, 8, 9, 5, 6, 6, 6, 2, 2, 9, 5, 8, 3, 2, 0, 9, 1, 9, 4, 4, 1, 7, 6, 4, 0, 1, 4, 3, 8, 7, 1, 4, 1, 4, 1, 0, 1, 0, 4, 6, 0, 8, 6, 0, 5, 8, 8, 9, 9, 7, 6, 7, 5, 8, 3, 2, 3, 2, 7, 3, 8, 3, 6, 2, 3, 3, 1, 4, 3, 4, 1, 5, 5, 8, 0, 2, 1, 5, 7, 0, 7, 1, 9, 2, 6, 6, 7, 6, 9, 0, 6, 3, 0, 0, 8, 1, 2, 5, 4, 2, 6, 5, 3, 8, 5, 8, 3, 0, 9, 8, 0, 1, 4, 4, 7, 9, 4, 2, 9, 6, 2, 3, 4, 4, 4, 5, 0, 1, 7, 9, 2, 6, 0, 4, 2, 5, 1, 3, 6, 9, 6, 8, 9, 0, 2, 5, 5, 8, 3, 2, 4, 9, 2, 4, 6, 8, 1, 9, 4, 9, 5, 5, 7, 4, 3, 2, 4, 1, 8, 0, 2, 3, 8, 0, 1, 6, 3, 6, 2, 5, 6, 0, 3, 1, 7, 7, 4, 6, 5, 6, 3, 7, 1, 4, 0, 9, 3, 2, 7, 3, 1, 2, 3, 7, 9, 5, 4, 1, 6, 6, 5, 6, 7, 7, 2, 4, 6, 9, 8, 1, 6, 3, 8, 5, 2, 9, 8, 5, 8, 5, 7, 1, 5, 0, 0, 8, 2, 1, 9, 7, 2, 9, 3, 7, 6, 2, 5, 2, 7, 3, 4, 3, 7, 5, 3, 9, 9, 9, 3, 7, 6, 5, 6, 9, 9, 2, 0, 8, 1, 9, 1, 8, 8, 8, 6, 9, 2, 3, 3, 5, 2, 8, 0, 0, 3, 5, 5, 1, 3, 3, 2, 1, 7, 7, 2, 2, 0, 5, 9, 5, 6, 7, 8, 5, 9,	4, 7, 9, 7, 3, 4, 3, 7, 1, 4, 9, 8, 3, 6, 2, 2, 8, 9, 5, 6, 6, 6, 2, 2, 9, 5, 8, 3, 2, 0, 9, 1, 9, 4, 4, 1, 7, 6, 4, 0, 1, 4, 3, 8, 7, 1, 4, 1, 4, 1, 0, 1, 0, 4, 6, 0, 8, 6, 0, 5, 8, 8, 9, 9, 7, 6, 7, 5, 8, 3, 2, 3, 2, 7, 3, 8, 3, 6, 2, 3, 3, 1, 4, 3, 4, 1, 5, 5, 8, 0, 2, 1, 5, 7, 0, 7, 1, 9, 2, 6, 6, 7, 6, 9, 0, 6, 3, 0, 0, 8, 1, 2, 5, 4, 2, 6, 5, 3, 8, 5, 8, 3, 0, 9, 8, 0, 1, 4, 4, 7, 9, 4, 2, 9, 6, 2, 3, 4, 4, 4, 5, 0, 1, 7, 9, 2, 6, 0, 4, 2, 5, 1, 3, 6, 9, 6, 8, 9, 0, 2, 5, 5, 8, 3, 2, 4, 9, 2, 4, 6, 8, 1, 9, 4, 9, 5, 5, 7, 4, 3, 2, 4, 1, 8, 0, 2, 3, 8, 0, 1, 6, 3, 6, 2, 5, 6, 0, 3, 1, 7, 7, 4, 6, 5, 6, 3, 7, 1, 4, 0, 9, 3, 2, 7, 3, 1, 2, 3, 7, 9, 5, 4, 1, 6, 6, 5, 6, 7, 7, 2, 4, 6, 9, 8, 1, 6, 3, 8, 5, 2, 9, 8, 5, 8, 5, 7, 1, 5, 0, 0, 8, 2, 1, 9, 7, 2, 9, 3, 7, 6, 2, 5, 2, 7, 3, 4, 3, 7, 5, 3, 9, 9, 9, 3, 7, 6, 5, 6, 9, 9, 2, 0, 8, 1, 9, 1, 8, 8, 8, 6, 9, 2, 3, 3, 5, 2, 8, 0, 0, 3, 5, 5, 1, 3, 3, 2, 1, 7, 7, 2, 2, 0, 5, 9, 5, 6, 7, 8, 5, 9,

Test	Expected	Got
	5, 8, 6, 7, 0, 9, 9, 6, 3, 8, 1, 4, 8, 7, 2, 1, 1, 2, 0, 3, 6, 7, 3, 5, 9, 2, 2, 2, 2, 7, 8, 2, 5, 8, 8, 7, 0, 0, 3, 4, 1, 5, 9, 6, 3, 7, 6, 6, 8, 1, 8, 0, 3, 1, 2, 9, 6, 0, 2, 2, 2, 4, 0, 0, 5, 1, 1, 3, 3, 8, 3, 4, 7, 6, 0, 3, 3, 4, 8, 4, 0, 8, 1, 1, 3, 4, 8, 4, 3, 1, 5, 2, 2, 4, 0, 2, 9, 5, 7, 7, 2, 1, 0, 6, 9, 6]	5, 8, 6, 7, 0, 9, 9, 6, 3, 8, 1, 4, 8, 7, 2, 1, 1, 2, 0, 3, 6, 7, 3, 5, 9, 2, 2, 2, 2, 7, 8, 2, 5, 8, 8, 7, 0, 0, 3, 4, 1, 5, 9, 6, 3, 7, 6, 6, 8, 1, 8, 0, 3, 1, 2, 9, 6, 0, 2, 2, 2, 4, 0, 0, 5, 1, 1, 3, 3, 8, 3, 4, 7, 6, 0, 3, 3, 4, 8, 4, 0, 8, 1, 1, 3, 4, 8, 4, 3, 1, 5, 2, 2, 4, 0, 2, 9, 5, 7, 7, 2, 1, 0, 6, 9, 6]

Passed all tests! ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 11

Chính xác
Điểm 1,00 của
1,00

- Class LinkedList is used to represent single linked list, described as the following:

```
class LinkedList {  
    public:  
        class Node;  
    private:  
        Node* head;  
        Node* tail;  
        int size;  
    public:  
        class Node {  
            private:  
                int value;  
                Node* next;  
                friend class LinkedList;  
            public:  
                Node() {  
                    this->next = NULL;  
                }  
                Node(Node* node) {  
                    this->value = node->value;  
                    this->next = node->next;  
                }  
                Node(int value, Node* next = NULL) {  
                    this->value = value;  
                    this->next = next;  
                }  
            };  
        LinkedList(): head(NULL), tail(NULL), size(0) {};  
        void replace(LinkedList* linked_list, int low, int high);  
};
```

- In this class; head, tail and size are the pointers of the first element, the last element and size of linked list.
- Request: Implement function 'replace(LinkedList* linked_list, int low, int high)' (low <= high and high >= 0) to delete all elements from position low to position high in the linked list (head's position is 0). After that, add linked_list to this linked list in the position after position (low - 1) (if low - 1 < 0, the head of this linked list will become the head of linked_list).
(If high >= size, delete all elements from low position to the last position of this linked list. If low < 0, delete all elements from the first

position of this linked list to high position)

- Example:

- + The given linked list: 10->20->30->40->50
- + The linked_list: 55->45->42
- + low=1, high=3

In this case, delete all elements from position 1 (value 20) to position 3 (value 40). After that, add linked_list to this linked list to the position after position 0 (value 10), therefore, this linked list will become: 10->55->45->42->50 .

Note: In this exercise, library 'iostream' and 'sstream' and 'using namespace std;' has been used. You can add other functions, however you are not allowed to add other libraries.

For example:

Test	Result
<pre>LinkedList* l1 = new LinkedList(); LinkedList* l2 = new LinkedList(); l1->add(10); l1->add(20); l1->add(30); l1->add(40); l1->add(50); l2->add(55); l2->add(45); l2->add(42); l1->replace(l2, -1, 2); cout << l1->toString() << "\n";</pre>	[55,45,42,40,50]

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)

Reset answer

```

1 void LinkedList::replace(LinkedList* linked_list, int low, int high) {
2     if(low <= 0)      low = 0;
3     if(low > high)   return;
4     if(high >= size) high = size-1;
5
6     LinkedList* l1 = new LinkedList();
7     Node* s2 = head;
8     Node* s3 = linked_list->head;
9
10    int index = 0;
11
12    while(s2 || s3) {
13        if(index < low) {
14            l1->add(s2->value);
15            s2 = s2->next;
16            index++;
17        }
18        else if(index > high) {
```

```
19         l1->add(s2->value);
20         s2 = s2->next;
21         index++;
22     }
23     else {
24         if(s3) {
25             l1->add(s3->value);
26             s3 = s3->next;
27         }
28         else {
29             for(;index<=high;++index) s2 = s2->next;
30         }
31     }
32 }
33
34 head = l1->head;
35 tail = l1->tail;
36 size = l1->size;
37 }
```

	Test	Expected	Got	
✓	LinkedList* l1 = new LinkedList(); LinkedList* l2 = new LinkedList(); l1->add(10); l1->add(20); l1->add(30); l1->add(40); l1->add(50); l2->add(55); l2->add(45); l2->add(42); l1->replace(l2, -1, 2); cout << l1->toString() << "\n";	[55,45,42,40,50]	[55,45,42,40,50]	✓

Passed all tests! ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

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