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Completed	Monday, 30 September 2024, 4:05 PM
Duration	21 mins 44 secs
Marks	13.00/14.00
Grade	9.29 out of 10.00 (92.86%)



Question 1

Correct

Mark 1.00 out of 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 + 81 = 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>	<pre>[2, 4, 1]</pre>

Answer: (penalty regime: 0, 0, 0, 5, 10, ... %)

Reset answer

```
1 LLNode* addLinkedList(LLNode* l0, LLNode* l1) {
2     // STUDENT ANSWER
3     LLNode* dummy = new LLNode(); // Dummy node to simplify result list creation
4     LLNode* current = dummy;      // Pointer to build the new list
5     int carry = 0;                 // Variable to store carry during addition
6
7     while (l0 != nullptr || l1 != nullptr || carry > 0) {
8         int sum = carry; // Start with carry value
9
10        // Add value from l0 if available
11        if (l0 != nullptr) {
12            sum += l0->val;
13            l0 = l0->next;
14        }
15    }
```

```
16 // Add value from l1 if available
17 if (l1 != nullptr) {
18     sum += l1->val;
19     l1 = l1->next;
20 }
21
22 // Calculate the new digit and the new carry
23 carry = sum / 10;
24 sum = sum % 10;
25
26 // Create a new node for the resulting digit
27 current->next = new LLNode(sum, nullptr);
28 current = current->next;
29 }
30
31 // Return the head of the resulting list (next of dummy node)
32 return dummy->next;
33 }
```

	Test	Expected	Got	
✓	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();	[2, 4, 1]	[2, 4, 1]	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 2

Correct

Mark 1.00 out of 1.00

Polynomials is an important application of arrays and linked lists. A polynomial is composed of different terms where each of them holds a coefficient and an exponent. A polynomial $p(x)$ is the expression in variable x which is in the form $(a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0)$, where a_n, a_{n-1}, \dots, a_0 fall in the category of real numbers and 'n' is the non-negative integer, which is called the degree of polynomial.

Example: $10x^2 + 26x$, here 10 and 26 are coefficients and 2, 1 is its exponential value.

Points to keep in Mind while working with Polynomials:

- The sign of each coefficient and exponent is stored within the coefficient and the exponent itself.
- The storage allocation for each term in the polynomial must be done in descending order of their exponent.

In this question, complete SLinkedList class is included. You should use this class to complete your Polynomial class with initialized frame as following. This task is implement insertTerm to insert a term into a polynomial.

```
class Polynomial;
class Term {
private:
    double coeff;
    int exp;
    friend class Polynomial;
public:
    Term(double coeff = 0.0, int exp = 0) {
        this->coeff = coeff;
        this->exp = exp;
    }
    bool operator==(const Term& rhs) const {
        return this->coeff == rhs.coeff && this->exp == rhs.exp;
    }
    friend ostream & operator<<(ostream &os, const Term& term) {
        cout << endl;
        cout << "Term: " << "(" << term.coeff << " " << term.exp << ")";
        return os;
    }
};

class Polynomial {
private:
    SLinkedList<Term>* terms;
public:
    Polynomial() {
        this->terms = new SLinkedList<Term>();
    }
    ~Polynomial() {
        this->terms->clear();
    }
    void insertTerm(const Term& term);
    void insertTerm(double coeff, int exp);
    void print() {
        SLinkedList<Term>::Iterator it;
        cout << "[";
        for (it = this->terms->begin(); it != this->terms->end(); it++) {
            cout << (*it);
        }
        cout << endl << "]";
    }
};
```

For example:

Test	Result
<pre>Polynomial *poly = new Polynomial(); poly->insertTerm(6.0, 2); poly->insertTerm(4.0, 5); poly->insertTerm(4.0, 3); poly->insertTerm(6.0, 5); poly->insertTerm(-1.0, 0); poly->insertTerm(-6.0, 6); poly->insertTerm(6.0, 6); poly->print();</pre>	<pre>[Term: (10 5) Term: (4 3) Term: (6 2) Term: (-1 0)]</pre>
<pre>int n = 5; int coeff[] = { 1, 2, 3, 4, 5 }; int exp[] = { 1, 2, 3, 4, 5 }; Polynomial p1; for (int i = 0; i < n; ++i) p1.insertTerm(coeff[i], exp[i]); p1.print();</pre>	<pre>[Term: (5 5) Term: (4 4) Term: (3 3) Term: (2 2) Term: (1 1)]</pre>

Answer: (penalty regime: 0, 0, 0, 5, 10 %)

Reset answer

```

1 void Polynomial::insertTerm(const Term& term) {
2     // STUDENT ANSWER
3     if (this->terms->empty()) {
4         this->terms->add(term);
5         return;
6     }
7
8     SLinkedList<Term>::Iterator it;
9     int pos = 0;
10    for (it = this->terms->begin(); it != this->terms->end(); ++it) {
11        if ((*it).exp == term.exp) {
12            (*it).coeff += term.coeff;
13
14            // remove 0 coeff term
15            if ((*it).coeff == 0.0) {
16                this->terms->removeAt(pos);
17            }
18            return;
19        }
20
21        if ((*it).exp < term.exp) {
22            this->terms->add(pos, term);
23            return;
24        }
25
26        pos++;
27    }
28    this->terms->add(term);
29 }
30
31 void Polynomial::insertTerm(double coeff, int exp) {
32     // STUDENT ANSWER
33     if (coeff != 0.0) {
34         Term newTerm(coeff, exp);
35         insertTerm(newTerm);
36     }
37 }
38 }
```

	Test	Expected	Got	
✓	<pre>Polynomial *poly = new Polynomial(); poly->insertTerm(6.0, 2); poly->insertTerm(4.0, 5); poly->insertTerm(4.0, 3); poly->insertTerm(6.0, 5); poly->insertTerm(-1.0, 0); poly->insertTerm(-6.0, 6); poly->insertTerm(6.0, 6); poly->print();</pre>	<pre>[Term: (10 5) Term: (4 3) Term: (6 2) Term: (-1 0)]</pre>	<pre>[Term: (10 5) Term: (4 3) Term: (6 2) Term: (-1 0)]</pre>	✓
✓	<pre>int n = 5; int coeff[] = { 1, 2, 3, 4, 5 }; int exp[] = { 1, 2, 3, 4, 5 }; Polynomial p1; for (int i = 0; i < n; ++i) p1.insertTerm(coeff[i], exp[i]); p1.print();</pre>	<pre>[Term: (5 5) Term: (4 4) Term: (3 3) Term: (2 2) Term: (1 1)]</pre>	<pre>[Term: (5 5) Term: (4 4) Term: (3 3) Term: (2 2) Term: (1 1)]</pre>	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 3

Correct

Mark 1.00 out of 1.00

Implement Iterator class in class SLinkedList.

Note: Iterator is a concept of repetitive elements on sequence structures. Iterator is implemented in class vector, list in STL container in C++ (<https://www.geeksforgeeks.org/iterators-c-stl/>). Your task is to implement the simple same class with iterator in C++ STL container.

Please read example and testcase carefully.



```

template <class T>
class SLinkedList
{
public:
    class Iterator; //forward declaration
    class Node;     //forward declaration
protected:
    Node *head;
    Node *tail;
    int count;
public:
    SLinkedList() : head(NULL), tail(NULL), count(0){};
    ~SLinkedList();
    void add(const T &e);
    void add(int index, const T &e);
    T removeAt(int index);
    bool removeItem(const T &removeItem);
    bool empty();
    int size();
    void clear();
    T get(int index);
    void set(int index, const T &e);
    int indexOf(const T &item);
    bool contains(const T &item);
    string toString();
    SLinkedList(const SLinkedList &list)
    {
        this->count = 0;
        this->head = NULL;
        this->tail = NULL;
    }
    Iterator begin()
    {
        return Iterator(this, true);
    }
    Iterator end()
    {
        return Iterator(this, false);
    }
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;
        }
    };
    class Iterator
    {
    private:
        SLinkedList<T> *pList;
        Node *current;
    };
};

```



```

        int index; // corresponding with current node
    public:
        Iterator(SllinkedList<T> *pList, bool begin);
        Iterator &operator=(const Iterator &iterator);
        void set(const T &e);
        T &operator*();
        bool operator!=(const Iterator &iterator);

        // Prefix ++ overload
        Iterator &operator++();

        // Postfix ++ overload
        Iterator operator++(int);
    };
};

```

For example:

Test	Result
<pre> SllinkedList<int> list; int size = 10; for(int idx=0; idx < size; idx++){ list.add(idx); } SllinkedList<int>::Iterator it; int expvalue = 0; for(it = list.begin(); it != list.end(); it++){ assert(*it == expvalue); expvalue += 1; } </pre>	
<pre> SllinkedList<int> list; int size = 10; for(int idx=0; idx < size; idx++){ list.add(idx); } SllinkedList<int>::Iterator it; int expvalue = 0; for(it = list.begin(); it != list.end(); ++it){ assert(*it == expvalue); expvalue += 1; } </pre>	

Answer: (penalty regime: 0, 0, 0, 5, 10 %)

Reset answer

```

21         this->index = (pList != nullptr? pList->size() : 0);
22     }
23     /*
24     Constructor of iterator
25     * Set pList to pList
26     * begin = true:
27     * * Set current (index = 0) to pList's head if pList is not NULL
28     * * Otherwise set to NULL (index = -1)
29     * begin = false:
30     * * Always set current to NULL
31     * * Set index to pList's size if pList is not NULL, otherwise 0
32     */
33 }
34
35 template <class T>
36 typename SllinkedList<T>::Iterator& SllinkedList<T>::Iterator::operator=(const Iterator& iterator)

```

```

37 {
38     this->current = iterator.current;
39     this->index = iterator.index;
40     this->pList = iterator.pList;
41     return *this;
42 }
43 /*
44     Assignment operator
45     * Set this current, index, pList to iterator corresponding elements.
46 */
47
48 template <class T>
49 void SLinkedList<T>::Iterator::remove()
50 {
51     if (current == nullptr)
52     {
53         throw std::out_of_range("Segmentation fault!");
54     }
55     pList->removeAt(index);
56     index -= 1;
57     if (index == -1)
58     {
59         current = nullptr;
60     }
61     else
62     {
63         int i = 0;
64         Node* x = pList->head;
65         while (x != nullptr)
66         {
67             if (i == index)
68             {
69                 break;
70             }
71             i++;
72             x = x->next;
73         }
74         current = x;
75     }
76 }
77 /*
78     Remove a node which is pointed by current
79     * After remove current points to the previous node of this position (or node with index - 1)
80     * If remove at front, current points to previous "node" of head (current = NULL, index = -1)
81     * Exception: throw std::out_of_range("Segmentation fault!") if remove when current is NULL
82 */
83 }

```

	Test
✓	<pre> SLinkedList<int> list; int size = 10; for(int idx=0; idx < size; idx++){ list.add(idx); } SLinkedList<int>::Iterator it; int expvalue = 0; for(it = list.begin(); it != list.end(); it++){ assert(*it == expvalue); expvalue += 1; } </pre>

	Test
✓	<pre>SLinkedList<int> list; int size = 10; for(int idx=0; idx < size; idx++){ list.add(idx); } SLinkedList<int>::Iterator it; int expvalue = 0; for(it = list.begin(); it != list.end(); ++it){ assert(*it == expvalue); expvalue += 1; }</pre>

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.



Question 4

Correct

Mark 1.00 out of 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 is 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>	[20,30,10,40,45,60,55]

Answer: (penalty regime: 0 %)

Reset answer

```

19         head2 = temp;
20         tail2=head2;
21         //if(head1){
22         //     head=head2;
23         //}
24     }
25     else{
26         tail2->next=temp;
27         tail2=tail2->next;
28         //temp=temp->next;
29     }
30     //temp=temp->next;
31 }
32 if(temp->value>k){
33     if(head3==nullptr){
34         head3 = temp;
35         tail3=head3;
36     }
37     else{
38         tail3->next=temp;
39         tail3=tail3->next;
40         //temp=temp->next;
41     }
42     //temp=temp->next;
43 }
44
45 }
46 if(head1!=nullptr&&head2!=nullptr&&head3!=nullptr){
47     head=head1;
48     tail1->next=head2;
49     tail2->next=head3;
50     tail=tail3;
51     tail->next=nullptr;
52 }
53 if(head1!=nullptr&&head2!=nullptr&&head3==nullptr){
54     head=head1;
55     tail1->next=head2;
56     tail=tail2;
57     tail->next=nullptr;
58 }
59 if(head1!=nullptr&&head2==nullptr&&head3!=nullptr){
60     head=head1;
61     tail1->next=head3;
62     tail=tail3;
63     tail->next=nullptr;
64 }
65 }
66 if(head1&&!head2&&!head3){
67     head=head1;
68     tail=tail1;

```

```
68     tail->next=NULLPTR;
69     tail->next=NULLPTR;
70 }
71 if(head1==NULLPTR&&head2!=NULLPTR&&head3!=NULLPTR){
72     head=head2;
73     tail2->next=head3;
74     tail=tail3;
75     tail->next=NULLPTR;
76 }
77 if(!head1&&head2&&!head3){
78     head=head2;
79     //tail2->next=head3;
80     tail=tail2;
81     tail->next=NULLPTR;
82 }
83 if(!head1&&head2&&head3){
84     head=head3;
85     tail=tail3;
86     tail->next=NULLPTR;
87 }
88 if(!head1&&!head2&&!head3){
89     return ;
90 }
91
92
93 }
```

	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! ✓

Correct

Marks for this submission: 1.00/1.00.



Question 5

Correct

Mark 1.00 out of 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
<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>

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

Reset answer

```

1 void reduceDuplicate(Node* root)
2 {
3     if(root == NULL) return;
4     Node* str = root;
5     while(str->getNext() != NULL) {
6         Node* check = str->getNext();
7         if(str->getData() == check->getData()) {
8             check = check->getNext();
9             free(str->getNext());
10            str->setNext(check);
11        } else str = str->getNext();
12    }
13 }
```


	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! ✓

Correct

Marks for this submission: 1.00/1.00.



Question 6

Incorrect

Mark 0.00 out of 1.00

Class Train represents to a train, described as the following:

```
class Train {
public:
    class TrainCar;
private:
    TrainCar* head;
    TrainCar* tail;
    int size;
public:
    class TrainCar {
    private:
        int remainingSpace;
        TrainCar* next;
        friend class Train;
    public:
        TrainCar() {this->next = NULL;}
        TrainCar(int remainingSpace, TrainCar* next = NULL) {
            this->remainingSpace = remainingSpace;
            this->next = next;
        }
    };
    Train() {
        this->head = new TrainCar(0);
        this->tail = this->head;
        this->size = 1;
    }
    int allocate(int containerSize);
    int totalRemainingSpace();
};
```

In this class:

- **head** is head of train (cannot contain container, index=0).
- **tail** is the last traincar of the train.
- **size** is the number of traincars the train has (include the head of train).

Each traincar (except head of train) can contains an amount of mass. Each traincar includes **remainingSpace** representing its current ability of containing and **next** presenting the next traincar (the head of train is the first traincar).

Load the containers into the traincars of the train following these rules:

- Each container can be loaded into only one traincar.
- With a container with mass M , we must load it into the traincar having current ability of containing $\geq M$ and it is the smallest (if more than one traincar satisfying, choose the traincar with the smallest index). After that, we must update its current ability of containing.

Request: Implement functions

```
int Train::allocate(int containerSize); int Train::totalRemainingSpace();
```

where:

- Function `allocate` implements for loading the container with mass `containerSize` into the train. Return the result is the index of the traincar used for loading this container (if can) and return -1 (if cannot load).

- Function `totalRemainingSpace` implements for calculating the sum of the mass the train can contains. Return the result is the sum of the mass the train can contains currently.

Example:

- $N(M)$ represents that the traincar with index N can contain mass of M .

- Train:

$0(0) \rightarrow 1(200) \rightarrow 2(400) \rightarrow 3(300) \rightarrow 4(600) \rightarrow 5(500) \rightarrow 6(100)$

- Implement `allocate(390)`: the result is 2, update train:

$0(0) \rightarrow 1(200) \rightarrow 2(10) \rightarrow 3(300) \rightarrow 4(600) \rightarrow 5(500) \rightarrow 6(100)$

- Implement `allocate(590)`: the result is 4, update train:

$0(0) \rightarrow 1(200) \rightarrow 2(10) \rightarrow 3(300) \rightarrow 4(10) \rightarrow 5(500) \rightarrow 6(100)$

- Implement `totalRemainingSpace()`: the result is 1120.

- Implement `allocate(510)`: the result is -1.

- Implement `allocate(10)`: the result is 2, update train:

$0(0) \rightarrow 1(200) \rightarrow 2(0) \rightarrow 3(300) \rightarrow 4(10) \rightarrow 5(500) \rightarrow 6(100)$

Note: In this exercise, libraries `iostream` 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>Train* t = new Train(); t->add(200); t->add(400); t->add(300); ; t->add(600); t->add(500); t->add(100); cout << t->allocate(390) << "\n"; cout << t->allocate(590) << "\n"; cout << t->totalRemainingSpace() << "\n"; cout << t->allocate(510) << "\n"; cout << t->allocate(10) << "\n";</pre>	<pre>2 4 1120 -1 2</pre>

Answer: (penalty regime: 0 %)

Reset answer

```
1  int Train::allocate(int containerSize) {
2
3
4
5  int Train::totalRemainingSpace() {
6
7  }
```

Syntax Error(s)

```
__tester__.cpp: In member function 'int Train::allocate(int)':  
__tester__.cpp:61:1: error: no return statement in function returning non-void [-Werror=return-type]  
  61 | }  
    | ^  
__tester__.cpp: In member function 'int Train::totalRemainingSpace()':  
__tester__.cpp:65:1: error: no return statement in function returning non-void [-Werror=return-type]  
  65 | }  
    | ^  
cc1plus: all warnings being treated as errors
```

Incorrect

Marks for this submission: 0.00/1.00.

Question 7

Correct

Mark 1.00 out of 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
SLinkedList<int> list; int size = 10; for(int index = 0; index < size; index++){ list.add(index); } cout << list.toString();	[0,1,2,3,4,5,6,7,8,9]
SLinkedList<int> list; int size = 10; for(int index = 0; index < size; index++){ list.add(0, index); } cout << list.toString();	[9,8,7,6,5,4,3,2,1,0]



Answer: (penalty regime: 0, 0, 0, 5, 10, 15, ... %)

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, nullptr); // Create a new node with the data
5
6      if (head == nullptr) { // If the list is empty
7          head = newNode;    // Set head to the new node
8          tail = newNode;    // Set tail to the new node
9      } else {
10         tail->next = newNode; // Link the new node to the last node
11         tail = newNode;      // Update the tail to the new node
12     }
13
14     count++;
15 }
16
17 template<class T>
18 void SLinkedList<T>::add(int index, const T& e) {
19     /* Insert an element into the list at given index. */
20     if (index < 0 || index > count) {
21         throw std::out_of_range("Index out of bounds"); // Handle invalid index
22     }
23
24     Node* newNode = new Node(e, nullptr); // Create a new node with the data
25
26     if (index == 0) { // Insertion at the head
27         newNode->next = head; // Link the new node to the current head
28         head = newNode;      // Update head to the new node
29         if (tail == nullptr) { // If the list was empty, update tail
30             tail = newNode;
31         }
32     } else { // Insertion elsewhere
33         Node* current = head;
34         for (int i = 0; i < index - 1; i++) { // Traverse to the node before the insertion point
35             current = current->next;
36         }
37         newNode->next = current->next; // Link the new node to the next node
38         current->next = newNode;      // Link the previous node to the new node
39         if (newNode->next == nullptr) { // If inserted at the end, update tail
40             tail = newNode;
41         }
42     }
43
44     count++;
45 }
46
47 template<class T>
48 int SLinkedList<T>::size() {
49     /* Return the length (size) of list */
50     return count;
51 }
52

```

	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! ✓

Correct

Marks for this submission: 1.00/1.00.



Question 8

Correct

Mark 1.00 out of 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, 5, 10, 15, ... %)

Reset answer

```

2  T SLinkedList<T>::get(int index) {
3      /* Give the data of the element at given index in the list. */
4      if (index>=count||index<0) throw out_of_range("");
5      Node * temp = head;
6      while (index>=1)
7      {
8          temp = temp->next;
9          index--;
10     }
11     return temp->data;
12 }
13
14 template <class T>
15 void SLinkedList<T>::set(int index, const T& e) {
16     /* Assign new value for element at given index in the list */
17     if (index>=count||index<0) throw out_of_range("");
18     Node * temp = head;
19     while (index>=1)
20     {
21         temp = temp->next;
22         index--;
23     }
24     temp->data = e;
25 }
26
27 template<class T>
28 bool SLinkedList<T>::empty() {
29     /* Check if the list is empty or not. */
30     if (count>0) return 0;
31     else return 1;
32 }
33
34
35 template<class T>
36 int SLinkedList<T>::indexOf(const T& item) {
37     /* Return the first index wheter item appears in list, otherwise return -1 */
38     Node * temp = head;
39     int index = 0;
40     while (temp!=nullptr)
41     {
42         if (temp->data==item) return index;

```

```

43     else{
44         temp = temp->next;
45         index++;
46     }
47 }
48 return -1;
49 }
50
51 template<class T>
52 bool SLinkedList<T>::contains(const T& item) {
53     /* Check if item appears in the list */
54     Node * temp = head;
55     while (temp!=nullptr)
56     {
57         if (temp->data==item) return 1;
58     }
59     temp = temp->next;
60 }
61 }
62 return 0;
63 }

```

	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! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 9

Correct

Mark 1.00 out of 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, 5, 10, 15, ... %)

Reset answer

```

18 {
19     for (int i = 1; i < index; i++)
20         fhead = fhead->next;
21     result = fhead->next->data;
22     Node *tmp = fhead->next;
23     fhead->next = fhead->next->next;
24
25     delete tmp;
26
27 } else if (index == (count - 1))
28 {
29     result = tail->data;
30
31     for (int i = 1; i < count - 1; i++)
32         fhead = fhead->next;
33
34     Node *tmp = tail;
35     fhead->next = nullptr;
36
37     delete tmp;
38     tail = fhead;
39 }
40 count--;
41 return result;
42 }
43
44 template <class T>
45 bool SLinkedList<T>::removeItem(const T& item)
46 {
47     /* Remove the first apperance of item in list and return true, otherwise return false */
48     Node* fhead = head;
49     int index = 0;
50     bool isFound = false;
51
52     while(fhead)
53     {

```

```

54     if (fhead->data == item)
55     {
56         isFound = true;
57         break;
58     }
59     index++;
60     fhead = fhead->next;
61 }
62
63 if (!isFound) return false;
64
65 fhead = head;
66
67 if (index == 0)
68 {
69     Node *tmp = head->next;
70     Node *k = head;
71     head = tmp;
72     delete k;
73 }
74 else if ((index < count - 1) && (index > 0))
75 {
76     for (int i = 1; i < index; i++)
77         fhead = fhead->next;
78
79     Node *tmn = fhead->next:

```

	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! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 10

Correct

Mark 1.00 out of 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 %)

Reset answer

```
1 LLNode* foldLinkedList(LLNode* head) {
2     // STUDENT ANSWER
3     if(head==nullptr) return nullptr;
4     LLNode* temp=head;
5     int length=0;
6     while(temp!=nullptr){
7         length++;
8         temp=temp->next;
9     }
10    temp=head;
```

```

11     int *arr=new int[length];
12     for(int i=0;temp!=nullptr;i++){
13         arr[i]=temp->val;
14         temp=temp->next;
15     }
16     int firsthalf,secondhalf;
17     if(length%2==0){
18         firsthalf=length/2-1;
19         secondhalf=length/2;
20     }
21     else{
22         firsthalf=length/2-1;
23         secondhalf=length/2+1;
24     }
25     LLNode*ret_head=new LLNode();
26     temp=ret_head;
27     while(firsthalf>=0){
28         temp->val=arr[firsthalf]+arr[secondhalf];
29         if(firsthalf!=0){
30             temp->next = new LLNode();
31             temp=temp->next;
32         }
33         firsthalf--;
34         secondhalf++;
35     }
36     if(length%2==0){
37     }
38     else{
39         temp= new LLNode();
40         temp->next=ret_head;
41         temp->val=arr[length/2];
42         ret_head=temp;
43     }
44 }
45 return ret_head;
46 }

```

	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>	<pre> [9, 5, 7, 5, 0] [7, 10, 9] </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>	<pre> [8, 4, 6, 8, 5, 3] [14, 9, 11] </pre>	✓
✓	<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> [] [] </pre>	<pre> [] [] </pre>	✓

	Test	Expected	Got	
✓	<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>	<pre>[7, 3, 1, 9, 4, 6, 3, 8, 5, 5] [10, 12, 9, 8, 12]</pre>	<pre>[7, 3, 1, 9, 4, 6, 3, 8, 5, 5] [10, 12, 9, 8, 12]</pre>	✓
✓	<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>	<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]</pre>	<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]</pre>	✓



	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, 7, 1, 8, 9, 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, 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}; 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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, 5, 3, 5, 7, 8, 7, 4, 1, 1, 6, 9, 2, 8, 7, 4, 4, 8, 3, 6, 2, 4, 3, 0, 1, 3, 8, 9, 8, 6, 8, 4, 8, 8, 6, 6, 2, 1, 7, 7, 4, 4, 9, 8, 9, 4, 9, 5, 4, 4, 7, 8, 8, 0, 1, 9, 1, 8, 1, 4, 0, 5, 3, 4, 7, 5, 4, 4, 8, 6, 5, 7, 4, 9, 3, 3, 0, 7, 1, 6, 4, 8, 7, 6, 7, 1, 1, 4, 8, 1, 4, 1, 9, 4, 8, 1, 2, 7, 8, 1, 6, 6, 7, 9, 5, 8, 6, 5, 8, 8, 3, 4, 1, 1, 9, 1, 0, 1, 4, 9, 8, 1, 5, 1, 3, 8, 5, 2, 4, 3, 5, 9, 6, 3, 4, 3, 2, 2, 3, 0, 8, 2, 3, 9, 3, 3, 1, 1, 5, 0, 8, 7, 9, 7, 5, 6, 9, 2, 3, 1, 8, 0, 9, 6, 0, 2, 5, 6, 1, 3, 7, 3, 4, 7, 2, 3, 0, 0, 5, ...snip... , 6, 6, 11, 13, 15, 9, 11, 4, 13, 12, 12, 9, 13, 12, 12, 9, 10, 16, 13, 8, 15, 4, 16, 4, 3, 7, 4, 8, 8, 5, 7, 7, 15, 13, 6, 6, 10, 15, 7, 8, 10, 8, 12, 8, 7, 7, 2, 10, 10, 10, 6, 12, 7, 10, 2, 1, 15, 12, 2, 15, 10, 5, 9, 5, 12, 10, 17, 9, 3, 14, 12, 2, 6, 3, 7, 12, 2, 15, 6, 13, 5, 8, 9, 10, 4, 10, 8, 14, 4, 3, 4, 12, 8, 4, 1, 8, 9, 9, 16, 13, 10, 10, 9, 16, 4, 6, 6, 0, 8, 9, 9, 12, 9, 12, 12, 15, 10, 11, 7, 10, 17, 11, 6, 13, 4, 11, 14, 6, 14, 10, 15, 6, 2, 14, 6, 3, 16, 14, 9, 5, 15, 6, 6, 10, 10, 13, 6, 11, 12, 16, 12, 11, 10, 1, 8, 12, 7, 7, 15, 7, 8, 10, 16, 12, 9, 4, 9, 16, 14, 9, 7, 10, 4, 1, 9, 10, 12, 5, 0, 11, 7, 8, 3, 6, 15, 11, 11, 9, 3, 17, 11, 3, 12, 11, 14, 9, 13, 6, 8, 16, 6, 13, 6, 12, 6, 9, 9, 6, 1, 2, 2, 12, 18, 3, 4, 0, 6, 8, 10, 8, 10, 10, 5, 4, 1, 12, 11, 11, 17, 7, 2, 8, 8, 8, 10, 6, 13, 5, 13, 7, 3, 6, 15, 13, 7, 12, 8, 17, 8, 3, 12, 8, 16, 12, 13, 6, 9, 2, 11, 5, 9, 10, 8, 15, 9, 10, 9, 7, 16, 12, 6, 6, 8, 9, 17, 5, 12, 11, 15, 11, 5, 11, 11, 11, 11, 3, 5, 8, 13, 9, 11, 11, 7, 13, 6, 8, 13, 9, 9, 14, 2, 15, 6, 6, 2, 13, 10, 13, 13, 10, 10, 10, 15, 16, 1, 5, 11, 3, 8, 4, 4, 10, 10, 1, 3, 18, 10, 6, 13, 14, 15, 8, 10, 10, 9, 10, </pre>	<pre> 8, 5, 3, 5, 7, 8, 7, 4, 1, 1, 6, 9, 2, 8, 7, 4, 4, 8, 3, 6, 2, 4, 3, 0, 1, 3, 8, 9, 8, 6, 8, 4, 8, 8, 6, 6, 2, 1, 7, 7, 4, 4, 9, 8, 9, 4, 9, 5, 4, 4, 7, 8, 8, 0, 1, 9, 1, 8, 1, 4, 0, 5, 3, 4, 7, 5, 4, 4, 8, 6, 5, 7, 4, 9, 3, 3, 0, 7, 1, 6, 4, 8, 7, 6, 7, 1, 1, 4, 8, 1, 4, 1, 9, 4, 8, 1, 2, 7, 8, 1, 6, 6, 7, 9, 5, 8, 6, 5, 8, 8, 3, 4, 1, 1, 9, 1, 0, 1, 4, 9, 8, 1, 5, 1, 3, 8, 5, 2, 4, 3, 5, 9, 6, 3, 4, 3, 2, 2, 3, 0, 8, 2, 3, 9, 3, 3, 1, 1, 5, 0, 8, 7, 9, 7, 5, 6, 9, 2, 3, 1, 8, 0, 9, 6, 0, 2, 5, 6, 1, 3, 7, 3, 4, 7, 2, 3, 0, 0, 5, ...snip... , 6, 6, 11, 13, 15, 9, 11, 4, 13, 12, 12, 9, 13, 12, 12, 9, 10, 16, 13, 8, 15, 4, 16, 4, 3, 7, 4, 8, 8, 5, 7, 7, 15, 13, 6, 6, 10, 15, 7, 8, 10, 8, 12, 8, 7, 7, 2, 10, 10, 10, 6, 12, 7, 10, 2, 1, 15, 12, 2, 15, 10, 5, 9, 5, 12, 10, 17, 9, 3, 14, 12, 2, 6, 3, 7, 12, 2, 15, 6, 13, 5, 8, 9, 10, 4, 10, 8, 14, 4, 3, 4, 12, 8, 4, 1, 8, 9, 9, 16, 13, 10, 10, 9, 16, 4, 6, 6, 0, 8, 9, 9, 12, 9, 12, 12, 15, 10, 11, 7, 10, 17, 11, 6, 13, 4, 11, 14, 6, 14, 10, 15, 6, 2, 14, 6, 3, 16, 14, 9, 5, 15, 6, 6, 10, 10, 13, 6, 11, 12, 16, 12, 11, 10, 1, 8, 12, 7, 7, 15, 7, 8, 10, 16, 12, 9, 4, 9, 16, 14, 9, 7, 10, 4, 1, 9, 10, 12, 5, 0, 11, 7, 8, 3, 6, 15, 11, 11, 9, 3, 17, 11, 3, 12, 11, 14, 9, 13, 6, 8, 16, 6, 13, 6, 12, 6, 9, 9, 6, 1, 2, 2, 12, 18, 3, 4, 0, 6, 8, 10, 8, 10, 10, 5, 4, 1, 12, 11, 11, 17, 7, 2, 8, 8, 8, 10, 6, 13, 5, 13, 7, 3, 6, 15, 13, 7, 12, 8, 17, 8, 3, 12, 8, 16, 12, 13, 6, 9, 2, 11, 5, 9, 10, 8, 15, 9, 10, 9, 7, 16, 12, 6, 6, 8, 9, 17, 5, 12, 11, 15, 11, 5, 11, 11, 11, 11, 3, 5, 8, 13, 9, 11, 11, 7, 13, 6, 8, 13, 9, 9, 14, 2, 15, 6, 6, 2, 13, 10, 13, 13, 10, 10, 10, 15, 16, 1, 5, 11, 3, 8, 4, 4, 10, 10, 1, 3, 18, 10, 6, 13, 14, 15, 8, 10, 10, 9, 10, </pre>

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

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LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = foldLinkedList(head); LLNode::printList(newhead); </pre>	<pre> 1, 8, 5, 9, 9, 3, 7, 5, 2, 0, 5, 2, 3, 5, 4, 4, 8, 4, 9, 1, 1, 6, 3, 7, 2, 9, 1, 1, 3, 8, 7, 1, 3, 7, 4, 7, 1, 6, 5, 0, 5, 0, 7, 0, 5, 3, 4, 1, 8, 4, 3, 8, 1, 0, 0, 7, 2, 6, 6, 0, 2, 9, 3, 0, 5, 4, 2, 6, 1, 0, 4, 0, 4, 5, 7, 9, 7, 2, 8, 1, 3, 0, 0, 7, 8, 8, 6, 0, 0, 7, 4, 7, 8, 9, 1, 4, 0, 6, 2, 2, 4, 3, 7, 8, 2, 2, 9, 3, 2, 3, 8, 0, 6, 5, 8, 6, 4, 2, 0, 5, 1, 6, 5, 8, 5, 2, 7, 2, 4, 8, 3, 7, 4, 9, 3, 6, 3, 7, 7, 3, 3, 7, 0, 4, 8, 8, 1, 1, 1, 3, 2, 4, 5, 3, 2, 2, 5, 7, 1, 7, 0, 2, 0, 0, 7, 7, 6, 2, 6, 7, 9, 1, 7, 1, 7, 6, 8, 2, 3, ...snip... , 9, 9, 9, 8, 9, 13, 10, 15, 16, 9, 12, 5, 3, 8, 13, 6, 10, 4, 8, 8, 3, 8, 3, 4, 3, 7, 11, 16, 8, 3, 6, 14, 8, 7, 4, 16, 7, 11, 4, 12, 4, 8, 17, 7, 10, 10, 10, 12, 15, 1, 6, 7, 2, 11, 15, 2, 9, 11, 3, 7, 14, 15, 13, 9, 14, 16, 4, 18, 6, 17, 7, 5, 13, 4, 7, 5, 7, 4, 5, 7, 8, 4, 11, 6, 7, 2, 14, 7, 10, 12, 15, 6, 5, 11, 8, 14, 6, 8, 8, 7, 1, 10, 3, 11, 6, 10, 8, 15, 4, 8, 11, 7, 5, 10, 5, 11, 6, 3, 5, 4, 3, 2, 8, 5, 16, 12, 4, 7, 13, 3, 8, 8, 13, 13, 6, 10, 4, 7, 13, 4, 10, 13, 2, 5, 6, 13, 16, 4, 8, 7, 12, 6, 17, 11, 13, 10, 13, 7, 13, 5, 11, 14, 10, 7, 7, 4, 14, 10, 10, 2, 9, 11, 13, 10, 9, 9, 7, 8, 8, 14, 4, 8, 5, 3, 5, 2, 9, 8, 12, 4, 13, 5, 6, 16, 6, 16, 8, 15, 5, 4, 7, 5, 12, 3, 8, 12, 6, 13, 11, 10, 13, 4, 3, 11, 8, 3, 9, 11, 9, 10, 2, 6, 15, 14, 1, 12, 3, 6, 9, 5, 12, 11, 14, 9, 6, 7, 14, 11, 8, 1, 1, 12, 5, 8, 12, 9, 4, 16, 2, 3, 10, 8, 4, 4, 9, 6, 1, 8, 2, 9, 10, 0, 18, 17, 5, 10, 12, 13, 8, 7, 4, 10, 1, 8, 8, 7, 7, 7, 8, 5, 11, 12, 7, 4, 10, 6, 16, 9, 10, 4, 9, 18, 9, 7, 4, 6, 6, 12, 11, 13, 13, 10, 4, 10, 3, 11, 10, 8, 11, 5, 8, 13, 6, 10, 15, 8, 18, 15, 15, 13, 10, 5, 9, 10, 3, 15, 7, 10, 2, 6, 9, 6, 12, 8, 4, 9, 14, 11, 9, 8, 12, 6, 1, 4, </pre>	<pre> 1, 8, 5, 9, 9, 3, 7, 5, 2, 0, 5, 2, 3, 5, 4, 4, 8, 4, 9, 1, 1, 6, 3, 7, 2, 9, 1, 1, 3, 8, 7, 1, 3, 7, 4, 7, 1, 6, 5, 0, 5, 0, 7, 0, 5, 3, 4, 1, 8, 4, 3, 8, 1, 0, 0, 7, 2, 6, 6, 0, 2, 9, 3, 0, 5, 4, 2, 6, 1, 0, 4, 0, 4, 5, 7, 9, 7, 2, 8, 1, 3, 0, 0, 7, 8, 8, 6, 0, 0, 7, 4, 7, 8, 9, 1, 4, 0, 6, 2, 2, 4, 3, 7, 8, 2, 2, 9, 3, 2, 3, 8, 0, 6, 5, 8, 6, 4, 2, 0, 5, 1, 6, 5, 8, 5, 2, 7, 2, 4, 8, 3, 7, 4, 9, 3, 6, 3, 7, 7, 3, 3, 7, 0, 4, 8, 8, 1, 1, 1, 3, 2, 4, 5, 3, 2, 2, 5, 7, 1, 7, 0, 2, 0, 0, 7, 7, 6, 2, 6, 7, 9, 1, 7, 1, 7, 6, 8, 2, 3, ...snip... , 9, 9, 9, 8, 9, 13, 10, 15, 16, 9, 12, 5, 3, 8, 13, 6, 10, 4, 8, 8, 3, 8, 3, 4, 3, 7, 11, 16, 8, 3, 6, 14, 8, 7, 4, 16, 7, 11, 4, 12, 4, 8, 17, 7, 10, 10, 10, 12, 15, 1, 6, 7, 2, 11, 15, 2, 9, 11, 3, 7, 14, 15, 13, 9, 14, 16, 4, 18, 6, 17, 7, 5, 13, 4, 7, 5, 7, 4, 5, 7, 8, 4, 11, 6, 7, 2, 14, 7, 10, 12, 15, 6, 5, 11, 8, 14, 6, 8, 8, 7, 1, 10, 3, 11, 6, 10, 8, 15, 4, 8, 11, 7, 5, 10, 5, 11, 6, 3, 5, 4, 3, 2, 8, 5, 16, 12, 4, 7, 13, 3, 8, 8, 13, 13, 6, 10, 4, 7, 13, 4, 10, 13, 2, 5, 6, 13, 16, 4, 8, 7, 12, 6, 17, 11, 13, 10, 13, 7, 13, 5, 11, 14, 10, 7, 7, 4, 14, 10, 10, 2, 9, 11, 13, 10, 9, 9, 7, 8, 8, 14, 4, 8, 5, 3, 5, 2, 9, 8, 12, 4, 13, 5, 6, 16, 6, 16, 8, 15, 5, 4, 7, 5, 12, 3, 8, 12, 6, 13, 11, 10, 13, 4, 3, 11, 8, 3, 9, 11, 9, 10, 2, 6, 15, 14, 1, 12, 3, 6, 9, 5, 12, 11, 14, 9, 6, 7, 14, 11, 8, 1, 1, 12, 5, 8, 12, 9, 4, 16, 2, 3, 10, 8, 4, 4, 9, 6, 1, 8, 2, 9, 10, 0, 18, 17, 5, 10, 12, 13, 8, 7, 4, 10, 1, 8, 8, 7, 7, 7, 8, 5, 11, 12, 7, 4, 10, 6, 16, 9, 10, 4, 9, 18, 9, 7, 4, 6, 6, 12, 11, 13, 13, 10, 4, 10, 3, 11, 10, 8, 11, 5, 8, 13, 6, 10, 15, 8, 18, 15, 15, 13, 10, 5, 9, 10, 3, 15, 7, 10, 2, 6, 9, 6, 12, 8, 4, 9, 14, 11, 9, 8, 12, 6, 1, 4, </pre>

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Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.



Question 11

Correct

Mark 1.00 out of 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     // STUDENT ANSWER
3     LLNode* temp1=head,*temp2;
4     while(temp1!=nullptr){
5         bool changed=0;
6         temp2=temp1->next;
7         while(temp2!=nullptr){
8             if(temp1->val<temp2->val){
9                 temp1->val=temp2->val;
10                changed=1;
11                break;
12            }
13            temp2=temp2->next;
14        }
15        if(!changed){
16            temp1->val=0;
17        }
18        temp1=temp1->next;
19    }
20    return head;
21 }
```

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

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

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

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

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

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Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.



Question 12

Correct

Mark 1.00 out of 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 %)

Reset answer

```
1 LLNode* reverseLinkedList(LLNode* head) {
2     // STUDENT ANSWER
3     if(head==nullptr) return nullptr;
4     LLNode*prev=nullptr;
5     LLNode*current=head;
6     LLNode*next=nullptr;
7     while(current!=nullptr){
8         next=current->next;
9         current->next=prev;
10        prev=current;
11        current=next;
12    }
13    head=prev;
14    return head;
15
16 }
```

	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>	<pre>[13, 88, 60, 7, 192] [192, 7, 60, 88, 13]</pre>	<pre>[13, 88, 60, 7, 192] [192, 7, 60, 88, 13]</pre>	✓
✓	<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>	<pre>[] []</pre>	<pre>[] []</pre>	✓
✓	<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>	<pre>[31, 22, 46, 152, 14, 87, 196, 97, 5, 93] [93, 5, 97, 196, 87, 14, 152, 46, 22, 31]</pre>	<pre>[31, 22, 46, 152, 14, 87, 196, 97, 5, 93] [93, 5, 97, 196, 87, 14, 152, 46, 22, 31]</pre>	✓
✓	<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>	<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]</pre>	<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]</pre>	✓



	Test	Expected	Got	
✓	<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>	<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] </pre>	<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] </pre>	✓



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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> [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, </pre>	<pre> [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, </pre>	✓

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Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.



Question 13

Correct

Mark 1.00 out of 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 %)

Reset answer

```
1 LLNode* rotateLinkedList(LLNode* head, int k) {
2     // STUDENT ANSWER
3     if(head==nullptr){
4         return nullptr;
5     }
6     if(head->next==nullptr){
7         LLNode* ret=new LLNode(head->val,nullptr);
8         return ret;
9     }
10    int length=0;
11    LLNode*temp=head;
12    while(temp!=nullptr){
13        temp=temp->next;
14        length++;
15    }
16    temp=head;
17    k=k%length;
18    LLNode*tail_part=nullptr,*temp_tail=nullptr;
19    for(int i=0;i<length-k;i++){
20        if(i==0){
21            tail_part=new LLNode(temp->val,temp->next);
22            temp_tail=tail_part;
23        }
24        else{
```

```

25     temp_tail->next=new LLNode(temp->val,nullptr);
26     temp_tail=temp_tail->next;
27     }
28     temp=temp->next;
29 }
30 LLNode*head_part,*temp_head;
31 head_part=new LLNode(temp->val,nullptr);
32 temp_head=head_part;
33 temp=temp->next;
34 //int cnt=0;
35 while(temp!=nullptr){
36     temp_head->next=new LLNode(temp->val,nullptr);
37     //temp_head->next->val=temp_head->val=temp->val;
38     temp=temp->next;
39     //if(temp!=nullptr)
40     temp_head=temp_head->next;
41     //cnt++;
42 }
43 temp_head->next=temp_head->next;
44 return head_part;
45 }

```

	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>	<pre> [2, 4, 6, 6, 3] [6, 6, 3, 2, 4] </pre>	<pre> [2, 4, 6, 6, 3] [6, 6, 3, 2, 4] </pre>	✓
✓	<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> [] [] </pre>	<pre> [] [] </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>	<pre> [0, 4, 2, 5, 1, 0, 6, 4, 8, 6] [6, 0, 4, 2, 5, 1, 0, 6, 4, 8] </pre>	<pre> [0, 4, 2, 5, 1, 0, 6, 4, 8, 6] [6, 0, 4, 2, 5, 1, 0, 6, 4, 8] </pre>	✓



	Test	Expected	Got	
✓	<pre> int arr[] = {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}; 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, 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"; LLNode* newhead = rotateLinkedList(head, k); LLNode::printList(newhead); </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, 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, </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, 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, </pre>	✓

	Test	Expected	Got	
		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, 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]	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, 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]	



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

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int k = 1000; 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> 3, 6, 8, 7, 1, 7, 6, 7, 9, 5, 7, 2, 8, 1, 1, 8, 7, 4, 6, 5, 7, 7, 0, 3, 8, 0, 5, 3, 6, 1, 0, 0, 5, 5, 9, 8, 9, 2, 2, 0, 5, 0, 9, 4, 4, 6, 8, 5, 9, 7, 1, 4, 6, 4, 5, 1, 5, 2, 2, 7, 3, 6, 4, 9, 2, 9, 7, 8, 1, 5, 5, 8, 5, 5, 6, 4, 1, 1, 8, 0, 6, 8, 9, 4, 8, 4, 2, 4, 0, 1, 3, 7, 6, 5, 7, 8, 3, 6, 8, 7, 8, 3, 3, 8, 9, 9, 9, 1, 0, 3, 0, 2, 0, 3, 7, 1, 2, 1, 1, 6, 5, 0, 2, 6, 8, 7, 5, 0, 7, 1, 7, 7, 0, 5, 2, 2, 2, 8, 6, 9, 4, 7, 7, 7, 0, 0, 4, 9, 7, 5, 8, 5, 5, 4, 5, 2, 2, 4, 2, 0, 2, 5, 3, 1, 2, 3, 6, 8, 0, 0, 3, 4, 5, 2, 8, 6, 8, 9, 2, ...snip... 7, 8, 2, 8, 6, 3, 4, 1, 0, 2, 4, 7, 0, 2, 4, 8, 2, 6, 2, 1, 0, 5, 1, 5, 0, 6, 1, 0, 9, 8, 6, 9, 5, 7, 5, 3, 6, 0, 5, 9, 0, 9, 9, 0, 3, 0, 9, 3, 9, 6, 5, 3, 2, 8, 9, 0, 0, 7, 5, 1, 1, 2, 1, 4, 0, 2, 0, 7, 1, 4, 5, 5, 6, 2, 6, 1, 0, 4, 0, 7, 1, 3, 3, 4, 5, 0, 7, 1, 0, 9, 8, 7, 0, 0, 8, 2, 5, 3, 2, 7, 4, 9, 0, 6, 0, 7, 4, 7, 2, 8, 6, 3, 9, 7, 0, 6, 3, 9, 6, 7, 7, 4, 6, 9, 7, 5, 9, 9, 4, 8, 3, 3, 6, 6, 6, 7, 5, 4, 7, 0, 6, 2, 9, 7, 4, 2, 3, 9, 3, 9, 6, 0, 7, 8, 0, 0, 7, 9, 1, 6, 0, 7, 1, 6, 1, 0, 9, 1, 0, 9, 1, 8, 3, 6, 8, 1, 2, 8, 5, 9, 7, 1, 1, 5, 4, 5, 7, 5, 9, 4, 9, 5, 4, 2, 4, 4, 1, 1, 3, 1, 9, 8, 6, 4, 1, 2, 2, 4, 2, 9, 8, 2, 4, 9, 0, 3, 6, 1, 1, 8, 4, 2, 0, 7, 6, 7, 3, 9, 7, 0, 9, 8, 6, 0, 5, 1, 8, 0, 2, 9, 5, 5, 8, 5, 3, 9, 8, 7, 0, 4, 8, 2, 2, 6, 8, 4, 1, 4, 7, 2, 2, 1, 0, 6, 4, 8, 9, 5, 1, 0, 2, 6, 3, 9, 1, 2, 0, 1, 3, 6, 4, 7, 0, 0, 5, 6, 7, 3, 2, 6, 8, 8, 5, 4, 8, 4, 5, 0, 2, 8, 1, 2, 9, 9, 5, 1, 4, 8, 8, 1, 3, 9, 2, 8, 6, 1, 0, 8, 7, 3, 7, 3, 6, 9, 7, 1, 7, 9, 3, 3, 8, 7, 9, 1, 9, 1, 9, 4, 1, 1, 0, 3, 6, 7, 5, 3, 7, 8, 8, 1, 4, 9, 0, 3, 9, 9, 6, 4, 8, 2, 6, 7, 9, 0, 3, 9, 0, 6, 8, 9, 2, 1, 2, 5, 0, 8, 8, 4, 5, 6, 3, 7, 5, 2, 0, 0, 2, 1, 2, 4, 7, 8, </pre>	<pre> 3, 6, 8, 7, 1, 7, 6, 7, 9, 5, 7, 2, 8, 1, 1, 8, 7, 4, 6, 5, 7, 7, 0, 3, 8, 0, 5, 3, 6, 1, 0, 0, 5, 5, 9, 8, 9, 2, 2, 0, 5, 0, 9, 4, 4, 6, 8, 5, 9, 7, 1, 4, 6, 4, 5, 1, 5, 2, 2, 7, 3, 6, 4, 9, 2, 9, 7, 8, 1, 5, 5, 8, 4, 5, 6, 4, 1, 1, 8, 0, 6, 8, 9, 4, 8, 4, 2, 4, 0, 1, 3, 7, 6, 5, 7, 8, 3, 6, 8, 7, 8, 3, 3, 8, 9, 9, 9, 1, 0, 3, 0, 2, 0, 3, 7, 1, 2, 1, 1, 6, 5, 0, 2, 6, 8, 7, 5, 0, 7, 1, 7, 7, 0, 5, 2, 2, 2, 8, 6, 9, 4, 7, 7, 7, 0, 0, 4, 9, 7, 5, 8, 5, 5, 4, 5, 2, 2, 4, 2, 0, 2, 5, 3, 1, 2, 3, 6, 8, 0, 0, 3, 4, 5, 2, 8, 6, 8, 9, 2, ...snip... 7, 8, 2, 8, 6, 3, 4, 1, 0, 2, 4, 7, 0, 2, 4, 8, 2, 6, 2, 1, 0, 5, 1, 5, 0, 6, 1, 0, 9, 8, 6, 9, 5, 7, 5, 3, 6, 0, 5, 9, 0, 9, 9, 0, 3, 0, 9, 3, 9, 6, 5, 3, 2, 8, 9, 0, 0, 7, 5, 1, 1, 2, 1, 4, 0, 2, 0, 7, 1, 4, 5, 5, 6, 2, 6, 1, 0, 4, 0, 7, 1, 3, 3, 4, 5, 0, 7, 1, 0, 9, 8, 7, 0, 0, 8, 2, 5, 3, 2, 7, 4, 9, 0, 6, 0, 7, 4, 7, 2, 8, 6, 3, 9, 7, 0, 6, 3, 9, 6, 7, 7, 4, 6, 9, 7, 5, 9, 9, 4, 8, 3, 3, 6, 6, 6, 7, 5, 4, 7, 0, 6, 2, 9, 7, 4, 2, 3, 9, 3, 9, 6, 0, 7, 8, 0, 0, 7, 9, 1, 6, 0, 7, 1, 6, 1, 0, 9, 1, 0, 9, 1, 8, 3, 6, 8, 1, 2, 8, 5, 9, 7, 1, 1, 5, 4, 5, 7, 5, 9, 4, 9, 5, 4, 2, 4, 4, 1, 1, 3, 1, 9, 8, 6, 4, 1, 2, 2, 4, 2, 9, 8, 2, 4, 9, 0, 3, 6, 1, 1, 8, 4, 2, 0, 7, 6, 7, 3, 9, 7, 0, 9, 8, 6, 0, 5, 1, 8, 0, 2, 9, 5, 5, 8, 5, 3, 9, 8, 7, 0, 4, 8, 2, 2, 6, 8, 4, 1, 4, 7, 2, 2, 1, 0, 6, 4, 8, 9, 5, 1, 0, 2, 6, 3, 9, 1, 2, 0, 1, 3, 6, 4, 7, 0, 0, 5, 6, 7, 3, 2, 6, 8, 8, 5, 4, 8, 4, 5, 0, 2, 8, 1, 2, 9, 9, 5, 1, 4, 8, 8, 1, 3, 9, 2, 8, 6, 1, 0, 8, 7, 3, 7, 3, 6, 9, 7, 1, 7, 9, 3, 3, 8, 7, 9, 1, 9, 1, 9, 4, 1, 1, 0, 3, 6, 7, 5, 3, 7, 8, 8, 1, 4, 9, 0, 3, 9, 9, 6, 4, 8, 2, 6, 7, 9, 0, 3, 9, 0, 6, 8, 9, 2, 1, 2, 5, 0, 8, 8, 4, 5, 6, 3, 7, 5, 2, 0, 0, 2, 1, 2, 4, 7, 8, </pre>

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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> 8, 9, 6, 7, 6, 9, 5, 3, 2, 1, 3, 0, 2, 7, 9, 8, 8, 5, 4, 4, 2, 6, 5, 4, 2, 0, 0, 2, 7, 8, 8, 7, 9, 7, 9, 8, 8, 2, 6, 0, 9, 0, 2, 6, 1, 9, 2, 9, 2, 5, 8, 6, 8, 0, 1, 5, 0, 6, 9, 7, 7, 2, 1, 5, 6, 1, 7, 0, 0, 7, 0, 0, 2, 8, 3, 3, 2, 9, 8, 9, 8, 9, 9, 1, 7, 6, 2, 5, 1, 2, 5, 7, 0, 8, 2, 8, 7, 7, 6, 1, 2, 8, 2, 5, 8, 0, 5, 7, 0, 7, 0, 2, 5, 5, 0, 3, 1, 8, 5, 7, 6, 8, 0, 0, 5, 1, 9, 0, 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, 5, 1, 3, 0, 9, 0, 2, 2, 5, 3, 3, 8, 7, 9, 3, 9, 5, 9, 0, 7, 7, 0, 2, 9, 8, 4, 0, 6, 0, 4, 2, 3, 3, 4, 9, 7, 2, 8, 3, 1, 9, 2, 7, 9, 8, 7, 5, 7, 1, 9, 3, 9, 4, 2, 9, 1, 1, 0, 4, 6, 3, 8, 6, 9, 3, 9, 5, 1, 8, 0, 6, 7, 6, 4, 7, 7, 6, 7, 4, 3, 8, 4, 4, 3, 3, 6, 8, 3, 7, 4, 5, 4, 7, 7, 5, 1, 6, 8, 2, 8, 0, 8, 0, 8, 8, 7, 3, 6, 5, 2, 4, 3, 9, 8, 7, 6, 3, 0, 4, 4, 6, 2, 3, 5, 6, 0, 9, </pre>	<pre> 8, 9, 6, 7, 6, 9, 5, 3, 2, 1, 3, 0, 2, 7, 9, 8, 8, 5, 4, 4, 2, 6, 5, 4, 2, 0, 0, 2, 7, 8, 8, 7, 9, 7, 9, 8, 8, 2, 6, 0, 9, 0, 2, 6, 1, 9, 2, 9, 2, 5, 8, 6, 8, 0, 1, 5, 0, 6, 9, 7, 7, 2, 1, 5, 6, 1, 7, 0, 0, 7, 0, 0, 2, 8, 3, 3, 2, 9, 8, 9, 8, 9, 9, 1, 7, 6, 2, 5, 1, 2, 5, 7, 0, 8, 2, 8, 7, 7, 6, 1, 2, 8, 2, 5, 8, 0, 5, 7, 0, 7, 0, 2, 5, 5, 0, 3, 1, 8, 5, 7, 6, 8, 0, 0, 5, 1, 9, 0, 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, 5, 1, 3, 0, 9, 0, 2, 2, 5, 3, 3, 8, 7, 9, 3, 9, 5, 9, 0, 7, 7, 0, 2, 9, 8, 4, 0, 6, 0, 4, 2, 3, 3, 4, 9, 7, 2, 8, 3, 1, 9, 2, 7, 9, 8, 7, 5, 7, 1, 9, 3, 9, 4, 2, 9, 1, 1, 0, 4, 6, 3, 8, 6, 9, 3, 9, 5, 1, 8, 0, 6, 7, 6, 4, 7, 7, 6, 7, 4, 3, 8, 4, 4, 3, 3, 6, 8, 3, 7, 4, 5, 4, 7, 7, 5, 1, 6, 8, 2, 8, 0, 8, 0, 8, 8, 7, 3, 6, 5, 2, 4, 3, 9, 8, 7, 6, 3, 0, 4, 4, 6, 2, 3, 5, 6, 0, 9, </pre>

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int k = 11111; 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> 5, 7, 0, 4, 2, 3, 0, 9, 1, 9, 3, 7, 8, 4, 7, 0, 9, 8, 7, 3, 7, 5, 1, 7, 7, 4, 4, 1, 7, 8, 4, 0, 6, 4, 9, 5, 4, 5, 3, 7, 3, 3, 7, 2, 1, 6, 3, 4, 6, 3, 1, 5, 9, 7, 3, 6, 2, 0, 9, 7, 0, 0, 3, 1, 5, 6, 3, 8, 2, 1, 6, 3, 4, 8, 9, 2, 3, 5, 9, 1, 4, 6, 9, 5, 8, 6, 6, 3, 4, 7, 2, 3, 7, 0, 2, 2, 7, 6, 8, 9, 9, 7, 2, 0, 9, 0, 3, 9, 6, 5, 9, 4, 3, 6, 8, 4, 3, 1, 0, 7, 2, 7, 3, 9, 3, 2, 0, 1, 9, 2, 3, 9, 1, 3, 3, 6, 5, 6, 5, 5, 5, 9, 1, 4, 6, 5, 4, 3, 2, 8, 7, 0, 1, 4, 4, 8, 9, 7, 4, 1, 1, 9, 4, 1, 0, 9, 5, 8, 6, 6, 9, 1, 5, 6, 0, 8, 0, 3, 3, ...snip... 3, 0, 7, 6, 6, 4, 1, 7, 5, 1, 2, 9, 2, 6, 3, 8, 7, 6, 7, 2, 9, 1, 3, 0, 2, 5, 8, 1, 1, 8, 9, 9, 7, 5, 9, 9, 4, 7, 5, 1, 5, 2, 0, 0, 5, 9, 8, 0, 4, 1, 1, 1, 6, 7, 5, 6, 3, 4, 0, 5, 9, 8, 4, 0, 9, 8, 8, 8, 2, 3, 7, 5, 5, 5, 5, 7, 2, 6, 1, 0, 2, 3, 1, 1, 9, 5, 1, 4, 5, 9, 1, 9, 6, 5, 1, 7, 4, 1, 3, 0, 7, 6, 6, 3, 8, 8, 9, 3, 8, 6, 5, 4, 1, 7, 3, 5, 8, 0, 9, 8, 5, 3, 2, 6, 4, 4, 1, 6, 3, 1, 5, 9, 9, 7, 9, 4, 4, 2, 8, 3, 6, 0, 9, 8, 5, 1, 2, 3, 3, 7, 5, 7, 0, 1, 2, 8, 3, 4, 4, 9, 3, 0, 2, 7, 3, 2, 6, 4, 5, 3, 4, 9, 7, 1, 5, 8, 7, 9, 9, 1, 7, 3, 1, 3, 5, 4, 4, 5, 4, 4, 8, 2, 1, 0, 5, 2, 3, 8, 2, 9, 2, 4, 3, 3, 7, 8, 1, 5, 5, 0, 4, 5, 2, 7, 7, 0, 8, 0, 4, 1, 9, 2, 0, 1, 6, 3, 9, 8, 3, 8, 3, 7, 1, 2, 5, 9, 1, 2, 9, 7, 4, 2, 4, 5, 5, 7, 9, 6, 9, 0, 6, 8, 0, 5, 3, 9, 1, 9, 9, 5, 6, 1, 0, 6, 2, 0, 8, 1, 1, 2, 3, 5, 6, 8, 6, 6, 4, 8, 7, 5, 4, 2, 7, 6, 8, 0, 9, 2, 9, 5, 3, 3, 0, 6, 4, 8, 8, 1, 6, 0, 5, 8, 6, 6, 1, 1, 0, 3, 7, 4, 3, 0, 0, 3, 4, 0, 7, 0, 7, 1, 3, 7, 5, 7, 5, 8, 9, 3, 5, 8, 8, 8, 4, 5, 1, 2, 8, 6, 9, 6, 9, 2, 7, 6, 9, 9, 4, 0, 8, 0, 4, 3, 5, 2, 0, 3, 2, 6, 5, 8, 5, 2, 9, 8, 6, 9, 8, 1, 7, 4, 9, 0, 2, 6, 8, 1, 9, 9, 1, 3, 4, 5, 4, 1, 1, 7, 5, 2, 0, 4, 3, 5, </pre>	<pre> 5, 7, 0, 4, 2, 3, 0, 9, 1, 9, 3, 7, 8, 4, 7, 0, 9, 8, 7, 3, 7, 5, 1, 7, 7, 4, 4, 1, 7, 8, 4, 0, 6, 4, 9, 5, 4, 5, 3, 7, 3, 3, 7, 2, 1, 6, 3, 4, 6, 3, 1, 5, 9, 7, 3, 6, 2, 0, 9, 7, 0, 0, 3, 1, 5, 6, 3, 8, 2, 1, 6, 3, 4, 8, 9, 2, 3, 5, 9, 1, 4, 6, 9, 5, 8, 6, 6, 3, 4, 7, 2, 3, 7, 0, 2, 2, 7, 6, 8, 9, 9, 7, 2, 0, 9, 0, 3, 9, 6, 5, 9, 4, 3, 6, 8, 4, 3, 1, 0, 7, 2, 7, 3, 9, 3, 2, 0, 1, 9, 2, 3, 9, 1, 3, 3, 6, 5, 6, 5, 5, 5, 9, 1, 4, 6, 5, 4, 3, 2, 8, 7, 0, 1, 4, 4, 8, 9, 7, 4, 1, 1, 9, 4, 1, 0, 9, 5, 8, 6, 6, 9, 1, 5, 6, 0, 8, 0, 3, 3, ...snip... 3, 0, 7, 6, 6, 4, 1, 7, 5, 1, 2, 9, 2, 6, 3, 8, 7, 6, 7, 2, 9, 1, 3, 0, 2, 5, 8, 1, 1, 8, 9, 9, 7, 5, 9, 9, 4, 7, 5, 1, 5, 2, 0, 0, 5, 9, 8, 0, 4, 1, 1, 1, 6, 7, 5, 6, 3, 4, 0, 5, 9, 8, 4, 0, 9, 8, 8, 8, 2, 3, 7, 5, 5, 5, 5, 7, 2, 6, 1, 0, 2, 3, 1, 1, 9, 5, 1, 4, 5, 9, 1, 9, 6, 5, 1, 7, 4, 1, 3, 0, 7, 6, 6, 3, 8, 8, 9, 3, 8, 6, 5, 4, 1, 7, 3, 5, 8, 0, 9, 8, 5, 3, 2, 6, 4, 4, 1, 6, 3, 1, 5, 9, 9, 7, 9, 4, 4, 2, 8, 3, 6, 0, 9, 8, 5, 1, 2, 3, 3, 7, 5, 7, 0, 1, 2, 8, 3, 4, 4, 9, 3, 0, 2, 7, 3, 2, 6, 4, 5, 3, 4, 9, 7, 1, 5, 8, 7, 9, 9, 1, 7, 3, 1, 3, 5, 4, 4, 5, 4, 4, 8, 2, 1, 0, 5, 2, 3, 8, 2, 9, 2, 4, 3, 3, 7, 8, 1, 5, 5, 0, 4, 5, 2, 7, 7, 0, 8, 0, 4, 1, 9, 2, 0, 1, 6, 3, 9, 8, 3, 8, 3, 7, 1, 2, 5, 9, 1, 2, 9, 7, 4, 2, 4, 5, 5, 7, 9, 6, 9, 0, 6, 8, 0, 5, 3, 9, 1, 9, 9, 5, 6, 1, 0, 6, 2, 0, 8, 1, 1, 2, 3, 5, 6, 8, 6, 6, 4, 8, 7, 5, 4, 2, 7, 6, 8, 0, 9, 2, 9, 5, 3, 3, 0, 6, 4, 8, 8, 1, 6, 0, 5, 8, 6, 6, 1, 1, 0, 3, 7, 4, 3, 0, 0, 3, 4, 0, 7, 0, 7, 1, 3, 7, 5, 7, 5, 8, 9, 3, 5, 8, 8, 8, 4, 5, 1, 2, 8, 6, 9, 6, 9, 2, 7, 6, 9, 9, 4, 0, 8, 0, 4, 3, 5, 2, 0, 3, 2, 6, 5, 8, 5, 2, 9, 8, 6, 9, 8, 1, 7, 4, 9, 0, 2, 6, 8, 1, 9, 9, 1, 3, 4, 5, 4, 1, 1, 7, 5, 2, 0, 4, 3, 5, </pre>

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int k = 5555; 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> 8, 9, 0, 2, 7, 9, 5, 6, 2, 0, 4, 0, 4, 2, 7, 1, 4, 3, 0, 7, 0, 2, 0, 9, 3, 9, 5, 2, 2, 8, 4, 2, 0, 0, 5, 8, 7, 5, 3, 6, 7, 7, 1, 5, 3, 3, 9, 4, 9, 1, 3, 8, 5, 8, 1, 1, 9, 8, 1, 0, 4, 9, 4, 6, 5, 4, 8, 4, 4, 4, 3, 1, 6, 5, 7, 5, 3, 4, 2, 4, 9, 1, 1, 8, 4, 7, 4, 0, 6, 2, 2, 0, 0, 2, 8, 6, 7, 5, 6, 0, 4, 6, 1, 2, 1, 3, 7, 4, 5, 3, 8, 3, 0, 3, 0, 5, 2, 0, 9, 7, 3, 0, 5, 1, 8, 5, 2, 9, 7, 4, 0, 9, 8, 5, 1, 0, 8, 1, 8, 1, 3, 9, 1, 8, 7, 2, 6, 0, 9, 0, 5, 2, 3, 6, 0, 6, 0, 6, 6, 8, 7, 3, 6, 3, 8, 3, 0, 4, 6, 5, 6, 4, 3, 4, 7, 8, 7, 8, 4, ...snip... 1, 9, 1, 5, 1, 5, 0, 2, 9, 5, 1, 7, 0, 2, 5, 3, 7, 9, 9, 6, 9, 5, 9, 3, 7, 3, 0, 4, 5, 7, 7, 0, 9, 4, 2, 2, 3, 5, 3, 5, 7, 1, 0, 1, 1, 2, 6, 9, 5, 2, 0, 6, 3, 5, 4, 3, 0, 6, 1, 4, 8, 7, 5, 3, 6, 1, 0, 4, 8, 7, 5, 1, 4, 6, 1, 0, 0, 2, 1, 9, 2, 3, 3, 5, 6, 8, 0, 3, 1, 1, 0, 6, 8, 9, 4, 8, 0, 5, 1, 0, 4, 0, 5, 6, 3, 6, 6, 1, 3, 5, 0, 0, 7, 9, 1, 7, 9, 1, 7, 3, 3, 4, 0, 2, 5, 0, 8, 7, 3, 9, 4, 9, 7, 7, 9, 0, 2, 1, 6, 8, 2, 0, 7, 9, 9, 4, 2, 2, 8, 8, 1, 7, 9, 7, 8, 7, 7, 6, 7, 2, 9, 4, 6, 2, 5, 1, 7, 3, 3, 1, 7, 5, 4, 9, 9, 4, 0, 4, 7, 4, 3, 5, 2, 9, 7, 5, 6, 9, 2, 0, 1, 9, 7, 2, 5, 0, 6, 2, 6, 4, 1, 5, 1, 7, 9, 0, 5, 2, 4, 1, 3, 9, 7, 2, 4, 0, 9, 2, 6, 6, 2, 9, 1, 1, 3, 4, 4, 9, 0, 5, 1, 7, 7, 4, 5, 0, 5, 4, 7, 1, 9, 1, 0, 5, 6, 3, 4, 2, 0, 1, 6, 6, 5, 4, 0, 0, 7, 8, 3, 4, 3, 7, 1, 3, 1, 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, </pre>	<pre> 8, 9, 0, 2, 7, 9, 5, 6, 2, 0, 4, 0, 4, 2, 7, 1, 4, 3, 0, 7, 0, 2, 0, 9, 3, 9, 5, 2, 2, 8, 4, 2, 0, 0, 5, 8, 7, 5, 3, 6, 7, 7, 1, 5, 3, 3, 9, 4, 9, 1, 3, 8, 5, 8, 1, 1, 9, 8, 1, 0, 4, 9, 4, 6, 5, 4, 8, 4, 4, 4, 3, 1, 6, 5, 7, 5, 3, 4, 2, 4, 9, 1, 1, 8, 4, 7, 4, 0, 6, 2, 2, 0, 0, 2, 8, 6, 7, 5, 6, 0, 4, 6, 1, 2, 1, 3, 7, 4, 5, 3, 8, 3, 0, 3, 0, 5, 2, 0, 9, 7, 3, 0, 5, 1, 8, 5, 2, 9, 7, 4, 0, 9, 8, 5, 1, 0, 8, 1, 8, 1, 3, 9, 1, 8, 7, 2, 6, 0, 9, 0, 5, 2, 3, 6, 0, 6, 0, 6, 6, 8, 7, 3, 6, 3, 8, 3, 0, 4, 6, 5, 6, 4, 3, 4, 7, 8, 7, 8, 4, ...snip... 1, 9, 1, 5, 1, 5, 0, 2, 9, 5, 1, 7, 0, 2, 5, 3, 7, 9, 9, 6, 9, 5, 9, 3, 7, 3, 0, 4, 5, 7, 7, 0, 9, 4, 2, 2, 3, 5, 3, 5, 7, 1, 0, 1, 1, 2, 6, 9, 5, 2, 0, 6, 3, 5, 4, 3, 0, 6, 1, 4, 8, 7, 5, 3, 6, 1, 0, 4, 8, 7, 5, 1, 4, 6, 1, 0, 0, 2, 1, 9, 2, 3, 3, 5, 6, 8, 0, 3, 1, 1, 0, 6, 8, 9, 4, 8, 0, 5, 1, 0, 4, 0, 5, 6, 3, 6, 6, 1, 3, 5, 0, 0, 7, 9, 1, 7, 9, 1, 7, 3, 3, 4, 0, 2, 5, 0, 8, 7, 3, 9, 4, 9, 7, 7, 9, 0, 2, 1, 6, 8, 2, 0, 7, 9, 9, 4, 2, 2, 8, 8, 1, 7, 9, 7, 8, 7, 7, 6, 7, 2, 9, 4, 6, 2, 5, 1, 7, 3, 3, 1, 7, 5, 4, 9, 9, 4, 0, 4, 7, 4, 3, 5, 2, 9, 7, 5, 6, 9, 2, 0, 1, 9, 7, 2, 5, 0, 6, 2, 6, 4, 1, 5, 1, 7, 9, 0, 5, 2, 4, 1, 3, 9, 7, 2, 4, 0, 9, 2, 6, 6, 2, 9, 1, 1, 3, 4, 4, 9, 0, 5, 1, 7, 7, 4, 5, 0, 5, 4, 7, 1, 9, 1, 0, 5, 6, 3, 4, 2, 0, 1, 6, 6, 5, 4, 0, 0, 7, 8, 3, 4, 3, 7, 1, 3, 1, 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, </pre>

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	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, 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, 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, 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, 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, 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,

Test	Expected	Got
	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, 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]	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, 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! ✓

Correct

Marks for this submission: 1.00/1.00.



Question 14

Correct

Mark 1.00 out of 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)' ($low \leq high$ and $high \geq 0$) 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 $high \geq size$, 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 %)

Reset answer

```

1 void LinkedList::replace(LinkedList* linked_list, int low, int high) {
2     Node* temp = head;
3     Node* hold = nullptr;
4     if (low < 0) {
5         low = 0;
6     }
7     if (high >= size) {
8         high = size-1;
9     }
10    for (int i = 0; i < low; i++) {
11        if (i == (low - 1)) { hold = temp; } // giữ lại để lát nối với chuỗi
12        temp = temp->next;
13    }
14    Node* delete_node = temp; //delete các node
15    //cout << high << endl;
16    for (int i = low; i <= high; i++) {
17        //cout << i << endl;
18        temp = temp->next; //dời note trc khi xóa
19        delete delete_node;
20        delete_node = temp;
21    }
22    if (linked_list != nullptr && linked_list->head != nullptr) {
23        if (hold != nullptr) hold->next = linked_list->head; //nối chuỗi
24        else head = linked_list->head; //nếu ko có hold tức là xóa từ head trở đi nên ta sẽ cho head=linked_li
25        linked_list->tail->next = temp; //nối phần đuôi linked_list với phần còn lại node
26        if (linked_list->tail->next == nullptr) {
27            tail = linked_list->tail; //update cái tail
28        }
29        else {
30            while (temp->next != nullptr) {
31                temp = temp->next;
32            }
33            tail = temp; //update cái tail
34        }
35    }
36    else { //nếu linked_list là nullptr hoặc linked_head là nullptr thì chạy phần này
37        if (hold != nullptr) hold->next = temp;
38        else head = temp;
39    }
40 }

```

	Test	Expected	Got	
✓	<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]	[55,45,42,40,50]	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

