



BÁCH KHOA E-LEARNING

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State	Finished
Completed on	Tuesday, 28 September 2021, 10:25 PM
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Marks	8.60/12.00
Grade	7.17 out of 10.00 (72%)

Question 1

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
------	--------

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 %)

Reset answer

```

1  template<class T>
2  T SLinkedList<T>::get(int index) {
3      /* Give the data of the element at given index in the list. */
4      if (index > count-1) return -1;
5      if (head != NULL)
6      {
7          Node* h = head;
8          int idx = 0;
9          if (index == 0) return head->data;
10         if (index == count-1 && tail != NULL) return tail->data;
11         while (h)
12         {
13             if (idx == index) return h->data;
14             h = h->next;
15             ++idx;
16         }
17     }
18     return -1;
19 }
20 template <class T>
21 void SLinkedList<T>::set(int index, const T& e) {
22     /* Assign new value for element at given index in the list */
23     if (head == NULL) return;
24     if (index > count-1) return;
25     if (index == 0)
26     {
27         head->data = e;
28         return;
29     }
30     if (index == count-1 && tail != NULL)
31     {
32         tail->data = e;
33         return;
34     }
35     int idx = 0;
36     Node* h = head;
37     while (h != nullptr)
38     {
39         if (idx == index)
40         {

```

```

41         h->data = e;
42         return;
43     }
44     h = h->next;
45     ++idx;
46 }
47 }
48
49 template<class T>
50 bool SLinkedList<T>::empty() {
51     /* Check if the list is empty or not. */
52     if (count == 0) return true;
53     return false;
54 }
55
56 template<class T>
57 int SLinkedList<T>::indexOf(const T& item) {
58     /* Return the first index wheter item appears in list, otherwise ret
59     if (head == NULL ) return -1;
60     if (head->data == item) return 0;
61     if (tail != NULL && tail->data == item) return count-1;
62     int idx = 0;
63     Node* h = head;
64     while (h)
65     {
66

```

	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 **2**

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
<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]

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

Answer: (penalty regime: 0, 0, 0, 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, NULL);
5      if (tail == NULL || head == NULL)
6      {
7          tail = newNode;
8          head = newNode;
9          head->next = tail;
10         tail->next = NULL;
11         ++count;
12         return;
13     }
14     tail->next = newNode;
15     tail = newNode;
16     ++(this->count);
17     return;
18 }
19
20 template<class T>
21 void SLinkedList<T>::add(int index, const T& e) {
22     //if (index > count-1) return;
23     if (count == 0) {add(e); return;}
24     if (index == 0)
25     {
26         Node* newNode = new Node(e, NULL);
27         newNode->next = head;
28         head = newNode;
29         ++count;
30         return;
31     }
32     if (index == count) {add(e); return;}
33     Node* curr = head;
34     Node* prev = nullptr;
35     int idx = 0;
36     while (curr)
37     {
38         if (idx == index)
39         {
40             Node* newNode = new Node(e, NULL);
41             newNode->next = curr;
42             prev->next = newNode;
43             ++(this->count);
44             return;
45         }
46         prev = curr;
47         curr = curr->next;
48         ++idx;
49     }
50     /* Insert an element into the list at given index. */
51 }
52
53
54 template<class T>
55 int SLinkedList<T>::size() {

```

```

56     /* Return the length (size) of list */
57     return count;
58 }

```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **3**

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
------	--------

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 %)

Reset answer

```

1  template <class T>
2  T SLinkedList<T>::removeAt(int index)
3  {
4
5      if (count == 0) throw std::out_of_range("Index is out of range");
6      if (index > count-1) throw std::out_of_range("Index is out of range");
7      Node* h = head;
8      Node* prev = NULL;
9      T temp;
10     if (index == 0)
11     {
12         temp = h->data;
13         head = h->next;
14         delete h;
15         --(this->count);
16         return temp;
17     }
18     if (index == count-1)
19     {
20         while (h->next->next != NULL) h = h->next;
21         temp = tail->data;
22         delete tail;
23         tail = h;
24         tail->next = NULL;
25         --(this->count);
26         return temp;
27     }
28     int idx = 0;
29     while (h != NULL)
30     {
31         if (idx == index)
32         {
33             prev->next = h->next;
34             temp = h->data;
35             delete h;
```

```

36         --(this->count);
37         return temp;
38     }
39     ++idx;
40     prev = h;
41     h = h->next;
42 }
43 throw std::out_of_range("Index is out of range");
44 /* Remove element at index and return removed value */
45 }
46 template <class T>
47 bool SLinkedList<T>::removeItem(const T& item)
48 {
49     /* Remove the first apperance of item in list and return true, other
50     if (count == 0) return false;
51     Node* h = head;
52     Node* prev = NULL;
53     if (head != NULL && head->data == item)
54     {
55         head = head->next;
56         delete h;
57         --(this->count);
58         return true;
59     }
60     if (tail != NULL && tail->data == item)
61     {
62         while (h->next->next != NULL) h = h->next;
63         //temp = tail->data;
64         delete tail;
65         tail = h;
66     }

```

	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]	✓
✓	<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]	[0,1,2,3,4,5,6,7,8]	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 4

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

Answer: (penalty regime: 0 %)

Reset answer

```
1 typedef LLNode* ptr;
2 LLNode* foldLinkedList(LLNode* head)
3 {
4     ptr h = head;
5     int size = 0; //
6     while (h)
7     {
8         ++size;
9         h = h->next;
10    }
11    int* arr = new int[size]; // Convert linked list to array
12    h = head;
```

```

13     for (int i = 0; i < size; ++i)
14     {
15         arr[i] = h->val;
16         h = h->next;
17     }
18     ptr res = NULL;
19     if (size % 2 == 0)
20     {
21         for (int i = 0; i < size/2; ++i)
22         {
23             int tmp = arr[i] + arr[size-i-1];

```

	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>	✓
✓	<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>	✓

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

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

Passed all tests! **Correct**

Marks for this submission: 1.00/1.00.

Question 5

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 using ptr = LLNode*;
2 int sizeLL (LLNode* list);
3 LLNode* replaceFirstGreater(LLNode* head) {
4     int size = sizeLL(head); //
5     int* arr = new int [size];
6     ptr h = head;
7     for (int i = 0; i < size; ++i, h = h->next )
8     {
9         arr[i] = h->val;
10    }
11    stack<int> test;
12    for (int i = 0; i < size-1; ++i)
13    {
14        for (int j = i+1; j < size; ++j)
15        {
16            if(arr[j] > arr[i])
17            {
18                test.push(arr[j]);
19                break;
20            }
21            if (j == size -1) test.push(0);
22        }
23    }
```

	Test	Expected	Got	
--	------	----------	-----	--

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

Test	Expected	Got
<pre> 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> 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, 8, 8, 8, 6, 6, 6, 6, 8, 9, 9, 9, 9, 0, 8, 9, 6, 9, 6, 6, 9, 9, 9, 0, 8, 8, 9, 9, 0, 0, 4, 7, 9, 9, 5, 5, 7, 9, 9, 9, 0, 5, 7, 1, 4, 5, 5, 5, 7, 7, 8, 8, 8, 9, 9, 7, 9, 9, 6, 5, 5, 6, 6, 6, 6, 6, 9, 5, 9, 3, 5, 5, 9, 0, 0, 6, 8, 6, 8, 9, 8, 4, 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, </pre>	<pre> 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, 8, 8, 8, 6, 6, 6, 6, 8, 9, 9, 9, 9, 0, 8, 9, 6, 9, 6, 6, 9, 9, 9, 0, 8, 8, 9, 9, 0, 0, 4, 7, 9, 9, 5, 5, 7, 9, 9, 9, 0, 5, 7, 1, 4, 5, 5, 5, 7, 7, 8, 8, 8, 9, 9, 7, 9, 9, 6, 5, 5, 6, 6, 6, 6, 6, 9, 5, 9, 3, 5, 5, 9, 0, 0, 6, 8, 6, 8, 9, 8, 4, 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, </pre>

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

Passed all tests! 

Correct

Marks for this submission: 1.00/1.00.

Question 6

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 using ptr = LLNode*;
2 int sizeLL (ptr list);
3 LLNode* rotateLinkedList(LLNode* head, int k)
4 {
5     if (head == nullptr) return nullptr;
6     int size = sizeLL(head);
7     //cout << size << "\n";
8     if (k >= size)
9     {
10         int* arr = new int[size];
11         ptr h = head;
12         ptr res = NULL;
13         for (int i = 0 ; i < size; ++i, h = h->next )
14         {
15             arr[i] = h->val;
16         }
17         for (int i = size-2; i >= 0; --i)
18         {
19             ptr newNode = new LLNode(arr[i]);
20             newNode->next = res;
21             res = newNode;
22         }
23     }
```

23

ptr newNode = new LLNode(arr[size-1]);



	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>	✓
✓	<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>	✓
✓	<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,</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,</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,</pre>	✓

Test	Expected	Got
<pre> 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> 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, 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, </pre>	<pre> 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, 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, </pre>

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

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

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

	Test	Expected	Got	
	<pre> 1, 3, 3, 1, 4, 4, 1, 7, 4, 9, 3, 2, 3, 7, 0, 8, 1, 9, 7, 2, 1, 9, 3, 7, 6, 0, 5, 1, 4}; 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> 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] </pre>	<pre> 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] </pre>	

Passed all tests! 

Correct

Marks for this submission: 1.00/1.00.

Question 7

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     LLNode* res = NULL;
3     while (head)
4     {
5         LLNode* newnode = new LLNode(head->val, NULL);
6         newnode->next = res;
7         res = newnode;
8         head = head->next;
9     }
10    return res;
11 }
```



	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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Test	Expected	Got
<pre> 158, 76, 88, 5, 188, 5, 80, 173, 156, 48, 85, 184, 166, 100, 176, 33, 140, 96, 27, 66, 69, 194, 37, 146, 107, 161, 11, 11, 150, 135, 145, 183, 135, 3, 106, 124, 34, 158, 149, 37, 134, 61, 112, 100, 54, 70, 81, 181, 141, 134, 130, 44, 30, 26, 29, 145, 2, 45, 9, 138, 158, 97, 43, 10, 195, 106, 32, 121, 111, 55, 98, 141, 93, 74, 33, 111, 105, 18, 124, 128, 86, 79, 41, 14, 75, 198, 33, 162, 171, 101, 111, 100, 132, 42, 98, 25, 98, 23, 169, 140, 109, 96, 111, 18, 81, 0, 104, 74, 37, 81, 90, 21, 166, 106, 191, 170, 44, 6, 90, 174, 44, 195, 88, 154, 64, 112, 33, 61, 141, 98, 14, 91, 59, 137, 150, 118, 114, 55, 36, 108, 83, 144}; 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> 15, 177, 197, 190, 65, 143, 25, 156, 137, 116, 98, 90, 127, 114, 88, 189, 88, 23, 65, 106, 95, 27, 93, 155, 4, 199, 99, 151, 53, 192, 125, 2, 98, 158, 155, 129, 100, 55, 119, 89, 128, 88, 60, 145, 169, 85, 132, 70, 76, 167, 25, 70, 199, 190, 52, 184, 188, 144, 53, 147, 50, 162, 130, 197, 125, 173, 147, 45, 71, 180, 173, 83, 174, 68, 77, 96, 199, 115, 167, 193, 156, 148, 175, 33, 98, 99, 96, 62, 54, 125, 131, 155, 64, 179, 66, 63, 192, 7, 149, 60, 136, 78, 172, 115, 10, 168, 158, 63, 28, 117, 81, 24, 40, 89, 67, 57, 184, 89, 160, 13, 10, 15, 37, 23, 152, 147, 188, 96, 99, 116, 88, 13, 121, 167, 67, 24, 180, 45, 199, 86, 85, 58, 98, 121, 25, 148, 172, 24, 146, 193, 149, 61, 72, 117, 59, 79, 162, 100, 89, 88, 167, 99, 14, 55, 178, 20, 116, 49, 173, 27, 183, 117, 4, 99, 145, 46, 46, 61, 116, 125, 31, 195, 103, 30, 137, 184, 36, 67, 68] </pre>	<pre> 15, 177, 197, 190, 65, 143, 25, 156, 137, 116, 98, 90, 127, 114, 88, 189, 88, 23, 65, 106, 95, 27, 93, 155, 4, 199, 99, 151, 53, 192, 125, 2, 98, 158, 155, 129, 100, 55, 119, 89, 128, 88, 60, 145, 169, 85, 132, 70, 76, 167, 25, 70, 199, 190, 52, 184, 188, 144, 53, 147, 50, 162, 130, 197, 125, 173, 147, 45, 71, 180, 173, 83, 174, 68, 77, 96, 199, 115, 167, 193, 156, 148, 175, 33, 98, 99, 96, 62, 54, 125, 131, 155, 64, 179, 66, 63, 192, 7, 149, 60, 136, 78, 172, 115, 10, 168, 158, 63, 28, 117, 81, 24, 40, 89, 67, 57, 184, 89, 160, 13, 10, 15, 37, 23, 152, 147, 188, 96, 99, 116, 88, 13, 121, 167, 67, 24, 180, 45, 199, 86, 85, 58, 98, 121, 25, 148, 172, 24, 146, 193, 149, 61, 72, 117, 59, 79, 162, 100, 89, 88, 167, 99, 14, 55, 178, 20, 116, 49, 173, 27, 183, 117, 4, 99, 145, 46, 46, 61, 116, 125, 31, 195, 103, 30, 137, 184, 36, 67, 68] </pre>

Passed all tests! 

Correct

Marks for this submission: 1.00/1.00.

Question 8

Partially correct

Mark 0.20 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) { constructor
        this->coeff = coeff;
        this->exp = exp;
    }
    bool operator==(const Term& rhs) const {
        return this->coeff == rhs.coeff && this->exp == rhs.exp; bằng nhau khi cả hệ số tự do lẫn số mũ bằng nhau
    }
    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 }
4
5 void Polynomial::insertTerm(double coeff, int exp) {
6     // STUDENT ANSWER
7 }
```



	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>[]</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>[]</pre>	✖

Some hidden test cases failed, too.

Show differences

Partially correct

Marks for this submission: 0.20/1.00.

Question **9**

Incorrect

Mark 0.00 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(SLinkedList<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> 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>	
<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>	

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

Reset answer

```

1 template <class T>
2 SLinkedList<T>::Iterator::Iterator(SLinkedList<T>* pList, bool begin)
3 {
4     /*
5      * Constructor of iterator
6      * Set plist to pList
7      * begin = true:
8      * * Set current (index = 0) to pList's head if pList is not NULL

```

```

9      * * Otherwise set to NULL (index = -1)
10     * begin = false:
11     * * Always set current to NULL
12     * * Set index to plist's size if plist is not NULL, otherwise 0
13     */
14 }
15
16 template <class T>
17 typename SLinkedList<T>::Iterator& SLinkedList<T>::Iterator::operator=(c
18 {
19     /*
20      * Assignment operator
21      * Set this current, index, plist to iterator corresponding eleme
22      */
23 }
24
25 template <class T>
26 void SLinkedList<T>::Iterator::remove()
27 {
28     /*
29      * Remove a node which is pointed by current
30      * After remove current points to the previous node of this posit
31      * If remove at front, current points to previous "node" of head
32      * Exception: throw std::out_of_range("Segmentation fault!") if r
33      */
34 }
35
36 template <class T>
37 void SLinkedList<T>::Iterator::set(const T& e)
38 {
39     /*
40      * Set the new value for current node
41      * Exception: throw std::out_of_range("Segmentation fault!") if c
42      */
43 }
44
45 template <class T>
46 T& SLinkedList<T>::Iterator::operator*()
47 {
48     /*
49      * Get data stored in current node
50      * Exception: throw std::out_of_range("Segmentation fault!") if c
51      */
52 }
53
54 template <class T>
55 bool SLinkedList<T>::Iterator::operator!=(const Iterator& iterator)
56 {
57     /*
58      * Operator not equals
59      * Returns false if two iterators points the same node and index
60      */
61 }
62 // Prefix ++ overload
63 template <class T>
64 typename SLinkedList<T>::Iterator& SLinkedList<T>::Iterator::operator++(
65 {
66

```

Syntax Error(s)

```

__tester__.cpp: In member function 'bool SLinkedList<T>::Iterator::operator!=(const SLinkedList<T>::Iterator&)':
__tester__.cpp:406:1: error: no return statement in function returning non-void [-Werror=return-type]
}
^

__tester__.cpp: In instantiation of 'SLinkedList<T>::Iterator& SLinkedList<T>::Iterator::operator=(const
SLinkedList<T>::Iterator&) [with T = int]':
__tester__.cpp:442:21:   required from here
__tester__.cpp:368:1: error: no return statement in function returning non-void [-Werror=return-type]
}
^

__tester__.cpp: In instantiation of 'SLinkedList<T>::Iterator SLinkedList<T>::Iterator::operator++(int) [with T = int]':
__tester__.cpp:442:44:   required from here
__tester__.cpp:428:1: error: no return statement in function returning non-void [-Werror=return-type]
}
^

__tester__.cpp: In instantiation of 'T& SLinkedList<T>::Iterator::operator*() [with T = int]':
__tester__.cpp:443:5:   required from here
__tester__.cpp:397:1: error: no return statement in function returning non-void [-Werror=return-type]
}
^

__tester__.cpp: In instantiation of 'SLinkedList<T>::Iterator& SLinkedList<T>::Iterator::operator++() [with T = int]':
__tester__.cpp:458:44:   required from here
__tester__.cpp:417:1: error: no return statement in function returning non-void [-Werror=return-type]
}
^

cc1plus: all warnings being treated as errors

```

Incorrect

Marks for this submission: 0.00/1.00.

Question 10

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

```

1 void LinkedList::partition(int k) {
2     Node* h = head; //
3     int size = this->size;
4     int* arr = new int[size];
5     int move = 0;
6     for (h = head; h != NULL; h= h->next)
7     {
8         if (h->value < k) {arr[move] = h->value ; ++move;}
9     }
10    for (h = head; h != NULL; h= h->next)
11    {
12        if (h->value == k) {arr[move] = h->value ; ++move;}
13    }
14    for (h = head; h != NULL; h= h->next)
15    {
16        if (h->value > k) {arr[move] = h->value ; ++move;}
17    }
18    int i = 0;
19    for (h = head; h != NULL; h= h->next)
20    {
21        h->value = arr[i];
22        ++i;
23    }
24    tail->value = arr[size-1];
25    delete[] arr;
26    return;
27 }
28
```



	Test	Expected	Got	
✓	<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]	[20,30,10,40,45,60,55]	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 11

Partially correct

Mark 0.40 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 <= high and high >= 0) to delete all elements from position low to position high in the linked list (head's position is 0). After that, add linked_list to this linked list in the position after position (low - 1) (if low - 1 < 0, the head of this linked list will become the head of linked_list).

(If high >= size, delete all elements from low position to the last position of this linked list. If low < 0, delete all elements from the first position of this linked list to high position)

- Example:

+ The given linked list: 10->20->30->40->50

+ The linked_list: 55->45->42

+ low=1, high=3

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

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

For example:

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

Answer: (penalty regime: 0 %)

Reset answer

```

1
2 void LinkedList::replace(LinkedList* linked_list, int low, int high) {
3     if (linked_list == NULL) return;
4     int size2 = 0;
5     int size1 = this->size;
6     Node* h = linked_list->head;
7     int cnt = 0;
8     while (h)
9     {
10         ++cnt;
11         h = h->next;
12     }
13     size2 = cnt;
14     Node* store = NULL;
15     int storepos = 0;
16     int* replace = new int [size2] ;
17     int* original = new int [size1];
18     int* res = new int [size1+size2];
19     Node* h2 = linked_list->head;
20     Node* h1 = head;
21     int res_size = 0;
22     for (int i = 0; i < size2; ++i, h2 = h2->next) replace[i] = h2->value;
23     for (int i = 0; i < size1; ++i, h1 = h1->next) original[i] = h1->value;
24     if (low < 0) // truong hop low < 0, ta thay bat dau tu head.
25     {
26         for (int i = 0; i < size2; ++i) res[i] = replace[i]; // lay gia
27         if (size2 <= size1) // thay the phan gia tri ma list 2 ko cover
28         {
29             for (int i = size2; i < size1; ++i) res[i] = original[i];
30             res_size = size1;
31         }
32         else if (size2 > size1) res_size = size2; // res = FULL list 2.
33         if (size2 <= size1) //
34         {
35             int i = 0;
36             for (h1 = head; h1 != NULL; h1 = h1->next)
37             {
38                 h1->value = res[i];
39                 ++i;
40             }
41             delete[] replace;
42             delete[] original;
43             delete[] res;
44             return;
45         }
46         else
47         {
48             int i = 0;
49             for (h1 = head; h1 != NULL; h1 = h1->next)
50             {
51                 if (h1->next == NULL && h1 != NULL) store = h1;
52                 h1->value = res[i];
53             }

```

	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]	✓

Your code failed one or more hidden tests.

Partially correct

Marks for this submission: 0.40/1.00.

Question 12

Incorrect

Mark 0.00 out of 1.00

Class Train represents 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)->1(200)->2(400)->3(300)->4(600)->5(500)->6(100)
- Implement allocate(390): the result is 2, update train:
0(0)->1(200)->2(10)->3(300)->4(600)->5(500)->6(100)
- Implement allocate(590): the result is 4, update train:
0(0)->1(200)->2(10)->3(300)->4(10)->5(500)->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)->1(200)->2(0)->3(300)->4(10)->5(500)->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> <div></div>

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

Incorrect

Marks for this submission: 0.00/1.00.

[◀ Lab 1: Array List](#)

Jump to...

[Lab 2: Preparation ▶](#)

