Status	Finished
Started	Monday, 30 September 2024, 3:44 PM
Completed	Monday, 30 September 2024, 4:05 PM
Duration	21 mins 44 secs
Marks	13.00/14.00
Grade	9.29 out of 10.00 (92.86%)

```
Question 1
Correct
Mark 1.00 out of 1.00
```

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

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

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

Request: Implement function:

```
LLNode* addLinkedList(LLNode* 10, LLNode* 11);
```

Where 10, 11 are two linked lists represented positive integers, each node is a digit, the head is the least significant digit (the value of each node is between 0 and 9, the length of each linked list is between 0 and 100000). This function returns the linked list representing the sum of the two integers.

Example:

Given 10 = [2, 3] (representing 32) and 11 = [1, 8] (representing 81). The result would be 10 = [3, 1, 1] (representing 32 + 81 = 113).

Note:

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

For example:

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

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

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

```
16
            // Add value from 11 if available
17
            if (l1 != nullptr) {
                sum += 11->val;
18
19
                11 = 11->next;
20
            }
21
22
            // Calculate the new digit and the new carry
23
            carry = sum / 10;
24
            sum = sum % 10;
25
            // Create a new node for the resulting digit
26
27
            current->next = new LLNode(sum, nullptr);
28
            current = current->next;
29
        }
30
31
        // Return the head of the resulting list (next of dummy node)
32
        return dummy->next;
33 }
```

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

Correct

```
Question 2
Correct
Mark 1.00 out of 1.00
```

Polynomials is an important application of arrays and linked lists. A polynomial is composed of different terms where each of them holds a coefficient and an exponent. A polynomial p(x) is the expression in variable x which is in the form $(a_nx^n + a_{n-1}x^{n-1} + + a_1x + a_0)$, where a_n , a_{n-1} ,, a_0 fall in the category of real numbers and 'n' is the non-negative integer, which is called the degree of polynomial.

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

Points to keep in Mind while working with Polynomials:

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

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

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

For example:

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

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

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

	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->insertTerm(6.0, 6); poly->print();</pre>	Term: (4 3) Term: (6 2)	[Term: (10 5) Term: (4 3) Term: (6 2) Term: (-1 0)]	~
~	<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>	Term: (3 3) Term: (2 2)	[Term: (5 5) Term: (4 4) Term: (3 3) Term: (2 2) Term: (1 1)]	~

Correct

Question 3

Correct

Mark 1.00 out of 1.00

Implement Iterator class in class SLinkedList.

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

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

```
21
            this->index = (pList != nullptr? pList->size() : 0);
22
        }
23
24
            Constructor of iterator
25
            * Set pList to pList
            * begin = true:
26
            * * Set current (index = 0) to pList's head if pList is not NULL
27
            * * Otherwise set to NULL (index = -1)
28
29
            * begin = false:
30
            * * Always set current to NULL
            * * Set index to pList's size if pList is not NULL, otherwise 0
31
32
33
34
35
    template <class T>
   tynename Slinkedlist<Tv...Tterator% Slinkedlist<Tv...Tterator..onerator=(const Tterator% iterator)
```

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

```
Test

V 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;
}
```

```
Test

V 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;
}
```

Correct

```
Question 4
Correct
Mark 1.00 out of 1.00
```

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

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

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

Request: Implement function

void LinkedList::partition(int k);

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

Example:

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

https://lms.hcmut.edu.vn/mod/quiz/review.php?attempt=4250847&cmid=414747#question-4292235-6

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
LinkedList* 11 = new LinkedList(); 11->add(20); 11->add(30); 11->add(10); 11->add(60); 11->add(40); 11->add(45); 11->add(55); 11->partition(45); cout << 11->toString() << "\n";	[20,30,10,40,45,60,55]

Answer: (penalty regime: 0 %)

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

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

	Test	Expected	Got	
~	LinkedList* 11 = new LinkedList(); 11->add(20); 11->add(30); 11->add(10); 11->add(60); 11->add(40); 11->add(45); 11->add(55); 11->partition(45); cout << 11->toString() << "\n";	[20,30,10,40,45,60,55]	[20,30,10,40,45,60,55]	~

Correct

```
Question 5
Correct
Mark 1.00 out of 1.00
```

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

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

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

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

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

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

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

For example:

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

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

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

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

Correct

```
Question 6
Incorrect
Mark 0.00 out of 1.00
```

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

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

In this class:

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

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

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

- Each container can be loaded into only one traincar.
- With a container with mass M, we must load it into the traincar having current ability of containing >= 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) - 2(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();</pre>	2
t->add(200); t->add(400); t->add(300); ; t->add(600); t-	4
>add(500); t->add(100);	1120
<pre>cout << t->allocate(390) << "\n";</pre>	-1
<pre>cout << t->allocate(590) << "\n";</pre>	2
<pre>cout << t->totalRemainingSpace() << "\n";</pre>	
<pre>cout << t->allocate(510) << "\n";</pre>	
<pre>cout << t->allocate(10) << "\n";</pre>	

Answer: (penalty regime: 0 %)

```
int Train::allocate(int containerSize) {

int Train::totalRemainingSpace() {

}

}

}

// Property of the property of the
```

Syntax Error(s)

(Incorrect)

```
Question 7
Correct
Mark 1.00 out of 1.00
```

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

```
template <class T>
class SLinkedList {
public:
   class Node; // Forward declaration
protected:
   Node* head;
   Node* tail;
   int count;
public:
   SLinkedList();
   ~SLinkedList();
          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;</int></pre>	[0,1,2,3,4,5,6,7,8,9]
<pre>for(int index = 0; index < size; index++){ list.add(index); }</pre>	
<pre>cout << list.toString();</pre>	
<pre>SLinkedList<int> list; int size = 10;</int></pre>	[9,8,7,6,5,4,3,2,1,0]
<pre>for(int index = 0; index < size; index++){ list.add(0, index); }</pre>	
<pre>cout << list.toString();</pre>	

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

```
template <class T>
 1
 2 .
    void SLinkedList<T>::add(const T& e) {
        /* Insert an element into the end of the list. */
 3
 4
            Node* newNode = new Node(e, nullptr); // Create a new node with the data
 5
 6
        if (head == nullptr) { // If the list is empty
 7
            head = newNode;
                              // Set head to the new node
 8
            tail = newNode;
                               // Set tail to the new node
 9 •
        } else {
10
            tail->next = newNode; // Link the new node to the last node
11
            tail = newNode;
                                   // Update the tail to the new node
12
13
14
        count++;
    }
15
16
17
    template<class T>
18 void SLinkedList<T>::add(int index, const T& e) {
19
        /* Insert an element into the list at given index. */
20
         if (index < 0 || index > count) {
21
            throw std::out_of_range("Index out of bounds"); // Handle invalid index
22
23
        Node* newNode = new Node(e, nullptr); // Create a new node with the data
24
25
        if (index == 0) { // Insertion at the head
26
27
            newNode->next = head; // Link the new node to the current head
28
            head = newNode;
                                 // Update head to the new node
29
            if (tail == nullptr) { // If the list was empty, update tail
30
                tail = newNode;
31
            }
32 •
        } else { // Insertion elsewhere
33
            Node* current = head;
34
            for (int i = 0; i < index - 1; i++) { // Traverse to the node before the insertion point
35
                current = current->next;
36
            newNode->next = current->next; // Link the new node to the next node
37
38
            current->next = newNode;
                                            // Link the previous node to the new node
39
            if (newNode->next == nullptr) { // If inserted at the end, update tail
40
                tail = newNode;
41
42
        }
43
44
        count++;
45
46
47
    template<class T>
48 v int SLinkedList<T>::size() {
        /* Return the length (size) of list */
49
50
        return count;
51
52
```

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

Correct

```
Question 8

Correct

Mark 1.00 out of 1.00
```

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

```
template <class T>
class SLinkedList {
public:
   class Node; // Forward declaration
protected:
   Node* head;
   Node* tail;
   int count;
public:
   SLinkedList(): head(NULL), tail(NULL), count(0);
   ~SLinkedList() { };
   void
          add(T e);
   void
          add(int index, T e);
   int
           size();
   bool empty();
           get(int index);
   void
          set(int index, T e);
    int
           indexOf(T item);
          contains(T item);
   bool
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
SLinkedList <int> list;</int>	[8,15,2,4,7,10,40,6]
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};	
<pre>for (int idx = 0; idx < 8; idx++){ list.add(index[idx], values[idx]); }</pre>	
<pre>assert(list.size() == 8);</pre>	
<pre>for (int idx = 0; idx < 8; idx++){ assert(list.get(idx) == expvalues[idx]); }</pre>	
<pre>cout << list.toString();</pre>	
SLinkedList <int> list;</int>	[]
<pre>assert(list.empty() == true); cout << list.toString();</pre>	

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

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

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

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

Correct

```
Question 9
Correct
Mark 1.00 out of 1.00
```

 $Implement\ methods\ \textbf{removeAt},\ \textbf{removeItem},\ \textbf{clear}\ in\ template\ class\ \textbf{SLinkedList}\ \textbf{(which\ implements\ List)}$

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();
            get(int index);
           set(int index, T e);
   void
   int
           indexOf(T item);
   bool
           contains(T item);
           removeAt(int index);
    Τ
   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:

 \wedge

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

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

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

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

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

(Correct)

```
Question 10
Correct
Mark 1.00 out of 1.00
```

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

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

Given a singly linked list head node.

Your task is to implement a function with following prototype:

LLNode* foldLinkedList(LLNode* head);

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

More info:

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

Note:

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

For example:

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

Answer: (penalty regime: 0 %)

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

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

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

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

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

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

	Test	Expected	Got	
~	int arr[] = {0, 5, 7, 0, 9, 2, 8, 3, 2, 2, 9, 3,	[0, 5, 7, 0, 9, 2, 8, 3, 2,	[0, 5, 7, 0, 9, 2, 8, 3, 2,	~
	7, 2, 8, 0, 1, 4, 7, 3, 4, 0, 4, 5, 2, 0, 3, 1,	2, 9, 3, 7, 2, 8, 0, 1, 4,	2, 9, 3, 7, 2, 8, 0, 1, 4,	
	5, 3, 0, 2, 8, 7, 7, 1, 5, 3, 7, 9, 6, 4, 9, 8, 5, 5, 4, 3, 6, 9, 8, 0, 4, 5, 9, 4, 1, 5, 4, 2,	7, 3, 4, 0, 4, 5, 2, 0, 3, 1, 5, 3, 0, 2, 8, 7, 7, 1,	7, 3, 4, 0, 4, 5, 2, 0, 3, 1, 5, 3, 0, 2, 8, 7, 7, 1,	
	6, 4, 2, 1, 3, 1, 4, 6, 9, 0, 9, 6, 9, 9, 2, 0,	5, 3, 7, 9, 6, 4, 9, 8, 5,	5, 3, 7, 9, 6, 4, 9, 8, 5,	
	8, 9, 4, 9, 7, 0, 0, 5, 1, 2, 5, 2, 7, 5, 3, 3,	5, 4, 3, 6, 9, 8, 0, 4, 5,	5, 4, 3, 6, 9, 8, 0, 4, 5,	
	9, 8, 6, 5, 7, 9, 7, 3, 3, 0, 5, 9, 1, 2, 0, 2,	9, 4, 1, 5, 4, 2, 6, 4, 2,	9, 4, 1, 5, 4, 2, 6, 4, 2,	
	8, 5, 6, 3, 2, 7, 8, 6, 1, 5, 7, 1, 4, 9, 3, 2,	1, 3, 1, 4, 6, 9, 0, 9, 6,	1, 3, 1, 4, 6, 9, 0, 9, 6,	
	6, 1, 7, 9, 9, 4, 0, 9, 9, 2, 1, 1, 4, 3, 8, 7, 0, 8, 5, 0, 2, 8, 9, 6, 6, 8, 0, 6, 4, 2, 5, 1,	9, 9, 2, 0, 8, 9, 4, 9, 7, 0, 0, 5, 1, 2, 5, 2, 7, 5,	9, 9, 2, 0, 8, 9, 4, 9, 7, 0, 0, 5, 1, 2, 5, 2, 7, 5,	
	7, 2, 1, 3, 1, 6, 9, 0, 3, 9, 6, 2, 8, 7, 8, 1,	3, 3, 9, 8, 6, 5, 7, 9, 7,	3, 3, 9, 8, 6, 5, 7, 9, 7,	
	8, 6, 8, 0, 5, 4, 8, 0, 0, 6, 7, 4, 3, 5, 6, 3,	3, 3, 0, 5, 9, 1, 2, 0, 2,	3, 3, 0, 5, 9, 1, 2, 0, 2,	
	2, 2, 8, 2, 6, 3, 7, 9, 7, 2, 0, 3, 7, 6, 7, 6,	8, 5, 6, 3, 2, 7, 8, 6, 1,	8, 5, 6, 3, 2, 7, 8, 6, 1,	
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	4, 0, 3, 9, 0, 4, 1, 7, 6, 6, 3, 7, 0, 4, 3, 6, 9, 2, 6, 7, 8, 4, 7, 5, 8, 0, 3, 4, 0, 1, 9, 2,	7, 9, 9, 4, 0, 9, 9, 2, 1, 1, 4, 3, 8, 7, 0, 8, 5, 0,	7, 9, 9, 4, 0, 9, 9, 2, 1, 1, 4, 3, 8, 7, 0, 8, 5, 0,	
	9, 8, 8, 3, 9, 9, 6, 2, 0, 1, 4, 2, 1, 4, 9, 4,	2, 8, 9, 6, 6, 8, 0, 6, 4,	2, 8, 9, 6, 6, 8, 0, 6, 4,	
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	5, 4, 0, 9, 1, 0, 9, 3, 9, 5, 2, 6, 8, 4, 0, 0,	9, 0, 3, 9, 6, 2, 8, 7, 8,	9, 0, 3, 9, 6, 2, 8, 7, 8,	
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	0, 0, 5, 6, 2, 9, 7, 7, 7, 3, 5, 1, 7, 4, 6, 2,	5, 1, 3, 1, 5, 5, 9, 2, 3,	5, 1, 3, 1, 5, 5, 9, 2, 3,	
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	0, 8, 0, 6, 3, 7, 0, 7, 3, 2, 7, 7, 4, 9, 8, 8,	6, 7, 5, 3, 8, 3, 1, 9, 8,	6, 7, 5, 3, 8, 3, 1, 9, 8,	
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	7, 1, 4, 2, 9, 7, 4, 3, 8, 2, 0, 8, 8, 2, 1, 3,	5, 2, 5, 2, 0, 1, 9, 0, 1,	5, 2, 5, 2, 0, 1, 9, 0, 1,	
	5, 9, 5, 5, 8, 2, 7, 3, 4, 9, 8, 9, 7, 2, 5, 8,	7, 6, 2, 3, 1, 9, 5, 7, 2,	7, 6, 2, 3, 1, 9, 5, 7, 2,	
	4, 4, 6, 0, 7, 6, 4, 7, 0, 8, 4, 1, 6, 6, 7, 8,	8, 2, 2, 9, 1, 1, 0, 1, 2,	8, 2, 2, 9, 1, 1, 0, 1, 2,	
	1, 6, 9, 5, 1, 6, 6, 8, 6, 6, 6, 5, 1, 0, 3, 3,	2, 9, 2, 3, 0, 6, 8, 0, 3,	2, 9, 2, 3, 0, 6, 8, 0, 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,	8, 0, 4, 2, 5, 4, 7, 6, 8, 0, 2, 4, 9, 2, 1, 9, 3, 6,	8, 0, 4, 2, 5, 4, 7, 6, 8, 0, 2, 4, 9, 2, 1, 9, 3, 6,	
	7, 9, 5, 9, 1, 5, 5, 7, 6, 2, 4, 6, 8, 0, 7, 9,	0, 3, 1, 5, 6, 2, 5, 4, 3,	0, 3, 1, 5, 6, 2, 5, 4, 3,	
	6};	8, 6, 9, 4, 1, 6, 8, 6, 0,	8, 6, 9, 4, 1, 6, 8, 6, 0,	
	I and the second	I .	I .	1

	Test	Expected	Got
r	LLNode* head = LLNode::createWithIterators(arr,	4, 3, 4, 4, 7, 5, 8, 8, 4,	4, 3, 4, 4, 7, 5, 8, 8, 4,
	<pre>arr + sizeof(arr) / sizeof(int));</pre>	9, 9, 4, 3, 9, 9, 1, 1, 5,	9, 9, 4, 3, 9, 9, 1, 1, 5,
	LLNode::printList(head);	9, 2, 3, 0, 8, 9, 1, 1, 8,	9, 2, 3, 0, 8, 9, 1, 1, 8,
	cout << "\n";	3, 0, 1, 2, 9, 5, 0, 8, 0,	3, 0, 1, 2, 9, 5, 0, 8, 0,
	<pre>LLNode* newhead = foldLinkedList(head); LLNode::printList(newhead);</pre>	8, 8, 1, 2, 8, 5, 9, 5, 4, 8, 0, 3, 9, 1, 4, 1, 5, 9,	8, 8, 1, 2, 8, 5, 9, 5, 4, 8, 0, 3, 9, 1, 4, 1, 5, 9,
	Linouepr interse(newnead);	5, 1, 9, 1, 5, 3, 0, 0, 5,	5, 1, 9, 1, 5, 3, 0, 0, 5,
		6, 2, 9, 7, 7, 7, 3, 5, 1,	6, 2, 9, 7, 7, 7, 3, 5, 1,
		7, 4, 6, 2, 4, 4, 4, 3, 3,	7, 4, 6, 2, 4, 4, 4, 3, 3,
		9, 0, 7, 1, 3, 5, 3, 6, 6,	9, 0, 7, 1, 3, 5, 3, 6, 6,
		0, 8, 8, 5, 2, 1, 4, 1, 6,	0, 8, 8, 5, 2, 1, 4, 1, 6,
		4, 7, 9, 9, 1, 7, 8, 0, 8,	4, 7, 9, 9, 1, 7, 8, 0, 8,
		5, 3, 1, 3, 6, 2, 4, 8, 0,	5, 3, 1, 3, 6, 2, 4, 8, 0,
		0, 5, 0, 6, 6, 2, 5, 0, 4,	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,	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,	4, 5, 9, 0, 6, 0, 4, 0, 2,
		9, 1, 6, 5, 8, 3, 5, 0, 0,	9, 1, 6, 5, 8, 3, 5, 0, 0,
		6, 5, 5, 8, 6, 0, 2, 7, 5,	6, 5, 5, 8, 6, 0, 2, 7, 5,
		7, 9, 0, 4, 3, 9, 4, 1, 2,	7, 9, 0, 4, 3, 9, 4, 1, 2,
		0, 2, 7, 0, 3, 7, 9, 6, 5,	0, 2, 7, 0, 3, 7, 9, 6, 5,
		9, 4, 6, 0, 5, 5, 5, 0, 8,	9, 4, 6, 0, 5, 5, 5, 0, 8,
		3, 6, 8, 0, 6, 7, 1, 5, 4,	3, 6, 8, 0, 6, 7, 1, 5, 4,
		7, 7, 5, 7, 6, 8, 8, 4, 2,	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,	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,	2, 2, 5, 3, 4, 5, 0, 1, 0,
		0, 5, 0, 2, 5, 1, 8, 9, 0,	0, 5, 0, 2, 5, 1, 8, 9, 0,
		0, 8, 0, 6, 3, 7, 0, 7, 3,	0, 8, 0, 6, 3, 7, 0, 7, 3,
		2, 7, 7, 4, 9, 8, 8, 5, 6,	2, 7, 7, 4, 9, 8, 8, 5, 6,
		1, 7, 5, 2, 7, 9, 0, 7, 2,	1, 7, 5, 2, 7, 9, 0, 7, 2,
		4, 5, 7, 8, 6, 5, 9, 5, 3,	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,	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,	3, 6, 3, 5, 3, 9, 7, 3, 3,
		7, 7, 1, 4, 2, 9, 7, 4, 3,	7, 7, 1, 4, 2, 9, 7, 4, 3,
		8, 2, 0, 8, 8, 2, 1, 3, 5,	8, 2, 0, 8, 8, 2, 1, 3, 5,
		9, 5, 5, 8, 2, 7, 3, 4, 9,	9, 5, 5, 8, 2, 7, 3, 4, 9,
		8, 9, 7, 2, 5, 8, 4, 4, 6,	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,	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,	6, 6, 8, 6, 6, 6, 5, 1, 0,
		3, 3, 8, 4, 5, 8, 9, 5, 6,	3, 3, 8, 4, 5, 8, 9, 5, 6,
		5, 4, 0, 6, 7, 2, 6, 1, 6,	5, 4, 0, 6, 7, 2, 6, 1, 6,
		4, 6, 9, 6, 2, 0, 8, 2, 3,	4, 6, 9, 6, 2, 0, 8, 2, 3,
		7, 0, 7, 4, 1, 0, 3, 7, 9,	7, 0, 7, 4, 1, 0, 3, 7, 9,
		5, 9, 1, 5, 5, 7, 6, 2, 4, 6, 8, 0, 7, 9, 6]	5, 9, 1, 5, 5, 7, 6, 2, 4, 6, 8, 0, 7, 9, 6]
		[3, 7, 8, 9, 9, 9, 8, 1,	[3, 7, 8, 9, 9, 9, 8, 1,
		14, 8, 1, 11, 9, 9, 3, 2,	14, 8, 1, 11, 9, 9, 3, 2,
		17, 5, 10, 9, 13, 2, 6, 12,	17, 5, 10, 9, 13, 2, 6, 12,
		5, 1, 8, 10, 3, 5, 17, 5,	5, 1, 8, 10, 3, 5, 17, 5,
		8, 7, 12, 9, 9, 4, 14, 9,	8, 7, 12, 9, 9, 4, 14, 9,
		4, 10, 12, 12, 8, 13, 9, 7, 4, 7, 14, 10, 5, 9, 4, 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,	2, 5, 5, 13, 7, 6, 5, 9, 5,
		8, 12, 17, 10, 9, 8, 13,	8, 12, 17, 10, 9, 8, 13,
		14, 1, 10, 6, 9, 12, 13,	14, 1, 10, 6, 9, 12, 13,
		13, 13, 10, 11, 16, 13, 10,	13, 13, 10, 11, 16, 13, 10,
		7, 11, 13, 7, 2, 13, 13, 9,	7, 11, 13, 7, 2, 13, 13, 9,
		10, 0, 11, 10, 2, 9, 14,	10, 0, 11, 10, 2, 9, 14,
		12, 9, 1, 6, 15, 12, 8, 10, 0, 11, 8, 10, 7, 12, 14,	12, 9, 1, 6, 15, 12, 8, 10, 0, 11, 8, 10, 7, 12, 14,
		13, 8, 10, 15, 0, 9, 14, 3,	13, 8, 10, 15, 0, 9, 14, 3,
		, , , , , , , , , , , , , , , , , , ,	

10.47 P	on Singly L	Linked List (CC06). Attempt review	DK-LIVIS
	Test	Expected	Got
		9, 1, 5, 10, 14, 1, 15, 6,	9, 1, 5, 10, 14, 1, 15, 6,
		10, 11, 3, 2, 14, 11, 7,	10, 11, 3, 2, 14, 11, 7,
		10, 10, 8, 12, 10, 14, 3,	10, 10, 8, 12, 10, 14, 3,
		7, 5, 9, 2, 13, 11, 13, 5,	7, 5, 9, 2, 13, 11, 13, 5,
		9, 11, 7, 12, 10, 6, 14, 6,	9, 11, 7, 12, 10, 6, 14, 6,
		13, 10, 6, 15, 15, 5, 7, 5,	13, 10, 6, 15, 15, 5, 7, 5,
		5, 5, 7, 8, 9, 13, 10, 6,	5, 5, 7, 8, 9, 13, 10, 6,
		12, 9, 0, 14, 13, 10, 1, 5,	12, 9, 0, 14, 13, 10, 1, 5,
		14, 6, 9, 15, 2, 3, 7, 7,	14, 6, 9, 15, 2, 3, 7, 7,
		10, 14, 4, 6, 9, 9, 5, 0,	10, 14, 4, 6, 9, 9, 5, 0,
		6, 3, 8, 5, 11, 7, 9, 12,	6, 3, 8, 5, 11, 7, 9, 12,
		18, 4, 15, 6, 9, 12, 5, 13,	18, 4, 15, 6, 9, 12, 5, 13,
		9, 6, 11, 9, 15, 2, 9, 4,	9, 6, 11, 9, 15, 2, 9, 4,
		9, 16, 3, 6, 5, 15, 12, 12,	9, 16, 3, 6, 5, 15, 12, 12,
		3, 4, 15, 9, 6, 10, 10, 1,	3, 4, 15, 9, 6, 10, 10, 1,
		2, 9, 11, 16, 18, 3, 12,	2, 9, 11, 16, 18, 3, 12,
		11, 18, 6, 10, 3, 0, 6, 10,	11, 18, 6, 10, 3, 0, 6, 10,
		0, 11, 12, 16, 10, 13, 16,	0, 11, 12, 16, 10, 13, 16,
		10, 8, 9, 11, 8, 9, 0, 15,	10, 8, 9, 11, 8, 9, 0, 15,
		6, 12, 14, 7, 7, 11, 1, 14,	6, 12, 14, 7, 7, 11, 1, 14,
		7, 7, 11, 9, 14, 9, 8, 13,	7, 7, 11, 9, 14, 9, 8, 13,
		5, 6, 8, 5, 9, 11, 3, 7, 1,	5, 6, 8, 5, 9, 11, 3, 7, 1,
		8, 9, 11, 9, 13, 15, 4, 9,	8, 9, 11, 9, 13, 15, 4, 9,
		2, 7, 12, 9, 5, 11, 5, 12,	2, 7, 12, 9, 5, 11, 5, 12,
		7, 2, 4, 6, 5, 8, 4, 9, 11,	7, 2, 4, 6, 5, 8, 4, 9, 11,
		1, 8, 17, 4, 5, 8, 8, 12,	1, 8, 17, 4, 5, 8, 8, 12,
		11, 8, 8, 14, 11, 4, 13,	11, 8, 8, 14, 11, 4, 13,
		16, 7, 9, 17, 14, 6, 9, 2,	16, 7, 9, 17, 14, 6, 9, 2,
		9, 12, 3, 12, 11, 4, 13, 2,	9, 12, 3, 12, 11, 4, 13, 2,
		12, 11, 13, 17, 14, 7, 9,	12, 11, 13, 17, 14, 7, 9,
		10, 11, 9, 13, 15, 9, 13,	10, 11, 9, 13, 15, 9, 13,
		4, 8, 11, 9, 17, 7, 7, 14,	4, 8, 11, 9, 17, 7, 7, 14,
		11, 16, 4, 7, 10, 6, 15, 7,	11, 16, 4, 7, 10, 6, 15, 7,
		6, 10, 14, 8, 9, 11, 14, 9,	6, 10, 14, 8, 9, 11, 14, 9,
		4, 10, 7, 17, 9, 4, 5, 9,	4, 10, 7, 17, 9, 4, 5, 9,
		11, 5, 8, 11, 5, 8, 12, 12,	11, 5, 8, 11, 5, 8, 12, 12,
		14, 11, 13, 17, 5, 10, 8,	14, 11, 13, 17, 5, 10, 8,
		11, 11, 13, 11, 8, 7, 5, 8,	11, 11, 13, 11, 8, 7, 5, 8,
		11, 13, 10, 9, 15, 6, 6,	11, 13, 10, 9, 15, 6, 6,
		16, 9, 14, 13, 1, 15, 12,	16, 9, 14, 13, 1, 15, 12,
		11, 9, 4, 7, 11, 9, 7, 8,	11, 9, 4, 7, 11, 9, 7, 8,
		10, 13, 7, 10, 15, 10, 5,	10, 13, 7, 10, 15, 10, 5,
		0, 11, 12, 14, 7, 9, 13,	0, 11, 12, 14, 7, 9, 13,
		14, 13, 15, 9, 10, 9, 13,	14, 13, 15, 9, 10, 9, 13,
		10, 7, 7, 8, 13, 12, 8, 9,	10, 7, 7, 8, 13, 12, 8, 9,
		9, 7, 1, 11, 2, 5, 12, 4,	9, 7, 1, 11, 2, 5, 12, 4,
		7, 8, 4, 7, 7, 8, 9, 13,	7, 8, 4, 7, 7, 8, 9, 13,
		11, 8, 8, 14, 9, 8, 5, 12,	11, 8, 8, 14, 9, 8, 5, 12,
		8, 17, 0, 14, 14, 6]	8, 17, 0, 14, 14, 6]

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

Test	Expected	Got	
	5, 11, 16, 7, 8, 6, 2, 9,	5, 11, 16, 7, 8, 6, 2, 9,	
	1, 8, 3, 7, 3, 5, 13, 11,	1, 8, 3, 7, 3, 5, 13, 11,	
	10, 7, 11, 5, 13, 17, 13, 15, 12, 13, 9, 1, 4, 11, 8,	10, 7, 11, 5, 13, 17, 13, 15, 12, 13, 9, 1, 4, 11, 8,	
	12, 16, 13, 12, 8, 5, 4, 6,	12, 16, 13, 12, 8, 5, 4, 6,	
	0, 10, 5, 9, 11, 9, 10, 12,	0, 10, 5, 9, 11, 9, 10, 12,	
	18, 6, 8, 8, 12, 6, 9, 9,	18, 6, 8, 8, 12, 6, 9, 9,	
	4, 16, 3, 5, 4, 14, 9, 11, 11, 14, 6, 13, 10, 7, 12,	4, 16, 3, 5, 4, 14, 9, 11, 11, 14, 6, 13, 10, 7, 12,	
	8, 2, 11, 12, 2, 4, 8, 10,	8, 2, 11, 12, 2, 4, 8, 10,	
	13, 12, 8, 18, 8, 3, 13,	13, 12, 8, 18, 8, 3, 13,	
	13, 8, 9, 9, 8, 7, 9, 10,	13, 8, 9, 9, 8, 7, 9, 10,	
	8, 10, 14, 17, 7, 9, 6, 10,	8, 10, 14, 17, 7, 9, 6, 10,	
	1, 10, 9, 9, 6, 8, 7, 11, 10, 9, 10, 17, 12, 13, 15,	1, 10, 9, 9, 6, 8, 7, 11, 10, 9, 10, 17, 12, 13, 15,	
	7, 8, 15, 12, 6, 6, 12, 8,	7, 8, 15, 12, 6, 6, 12, 8,	
	10, 4, 13, 8, 12, 13, 10,	10, 4, 13, 8, 12, 13, 10,	
	9, 8, 11, 12, 7, 5, 3, 13,	9, 8, 11, 12, 7, 5, 3, 13,	
	8, 12, 10, 3, 9, 8, 11, 7,	8, 12, 10, 3, 9, 8, 11, 7,	
	7, 2, 14, 7, 2, 6, 12, 2, 12, 8, 9, 4, 9, 13, 7, 10,	7, 2, 14, 7, 2, 6, 12, 2, 12, 8, 9, 4, 9, 13, 7, 10,	
	11, 10, 8, 4, 5, 9, 9, 11,	11, 10, 8, 4, 5, 9, 9, 11,	
	5, 6, 1, 14, 11, 9, 7, 6,	5, 6, 1, 14, 11, 9, 7, 6,	
	11, 5, 6, 2, 3, 17, 13, 3,	11, 5, 6, 2, 3, 17, 13, 3,	
	5, 14, 8, 10, 8, 13, 10, 13, 5, 14, 3, 7, 10, 9, 14,	5, 14, 8, 10, 8, 13, 10, 13, 5, 14, 3, 7, 10, 9, 14,	
	10, 8, 1, 10, 1, 4, 0, 9,	10, 8, 1, 10, 1, 4, 0, 9,	
	9, 8, 13, 7, 12, 7, 10, 7,	9, 8, 13, 7, 12, 7, 10, 7,	
	6, 9, 13, 10, 5, 15, 11, 6,	6, 9, 13, 10, 5, 15, 11, 6,	
	6, 5, 12, 1, 5, 4, 18, 8,	6, 5, 12, 1, 5, 4, 18, 8,	
	2, 8, 2, 11, 0, 8, 15, 6, 7, 3, 15, 1, 17, 8, 3, 8,	2, 8, 2, 11, 0, 8, 15, 6, 7, 3, 15, 1, 17, 8, 3, 8,	
	12, 10, 10, 15, 8, 13, 1,	12, 10, 10, 15, 8, 13, 1,	
	2, 14, 14, 8, 9, 12, 17,	2, 14, 14, 8, 9, 12, 17,	
	15, 2, 14, 9, 7, 4, 7, 13,	15, 2, 14, 9, 7, 4, 7, 13,	
	6, 7, 0, 5, 6, 11, 9, 8, 4, 9, 8, 12, 11, 9, 7, 12, 15,	6, 7, 0, 5, 6, 11, 9, 8, 4, 9, 8, 12, 11, 9, 7, 12, 15,	
	8, 13, 9, 8, 10, 15, 10,	8, 13, 9, 8, 10, 15, 10,	
	10, 7, 4, 7, 7, 12, 4, 10,	10, 7, 4, 7, 7, 12, 4, 10,	
	15, 9, 12, 14, 7, 10, 16,	15, 9, 12, 14, 7, 10, 16,	
	14, 6, 11, 11, 8, 8, 10, 4,	14, 6, 11, 11, 8, 8, 10, 4, 7, 9, 9, 9, 8, 15, 12, 7,	
	7, 9, 9, 9, 8, 15, 12, 7, 3, 12, 13, 16, 10, 1, 3, 7,	3, 12, 13, 16, 10, 1, 3, 7,	
	15, 1, 2, 9, 10, 13, 4, 7,	15, 1, 2, 9, 10, 13, 4, 7,	
	10, 2, 6, 0, 8, 7, 2, 10,	10, 2, 6, 0, 8, 7, 2, 10,	
	5, 12, 1, 10, 11, 6, 9, 6,	5, 12, 1, 10, 11, 6, 9, 6,	
	8, 14, 4, 15, 8, 13, 7, 5, 10, 11, 10, 8, 11, 5, 5, 6,	8, 14, 4, 15, 8, 13, 7, 5, 10, 11, 10, 8, 11, 5, 5, 6,	
	15, 10, 7, 5, 11, 0, 9, 13,	15, 10, 7, 5, 11, 0, 9, 13,	
	1, 7, 6, 9, 10, 13, 10, 2,	1, 7, 6, 9, 10, 13, 10, 2,	
	2, 9, 7, 14, 10, 7, 9, 9,	2, 9, 7, 14, 10, 7, 9, 9,	
	0, 14, 8, 9, 15, 7, 18, 11,	0, 14, 8, 9, 15, 7, 18, 11,	
	12, 8, 11, 9, 7, 11, 3, 5, 5, 8, 14, 5, 8, 15, 16, 5,	12, 8, 11, 9, 7, 11, 3, 5, 5, 8, 14, 5, 8, 15, 16, 5,	
	15, 16, 6, 12, 0, 2, 17, 7,	15, 16, 6, 12, 0, 2, 17, 7,	
	11, 9, 3, 9, 7, 6, 5, 1, 7,	11, 9, 3, 9, 7, 6, 5, 1, 7,	
	11, 6, 15, 10, 16, 1, 6,	11, 6, 15, 10, 16, 1, 6,	
	16, 9, 15, 7, 5, 3, 4, 11, 11, 8, 6, 11, 3, 14, 8, 10,	16, 9, 15, 7, 5, 3, 4, 11, 11, 8, 6, 11, 3, 14, 8, 10,	
	10, 8, 9, 8, 13, 1, 6, 13,	10, 8, 9, 8, 13, 1, 6, 13,	
	6, 7, 7, 6, 6, 10, 16, 8,	6, 7, 7, 6, 6, 10, 16, 8,	
	4, 8, 13, 10, 13, 7, 15,	4, 8, 13, 10, 13, 7, 15,	
	15, 14, 11, 11, 15, 5, 5, 9, 12, 8, 15, 6, 3, 10, 0,	15, 14, 11, 11, 15, 5, 5, 9, 12, 8, 15, 6, 3, 10, 0,	
	,, _, _, _, ,, _, ,, _,	,, _, _, _, ,, _, ,, _, ,, _,	

r IVI	Singly Linked List (CC00). Attempt revi	SW DIC-LING
Test	Expected	Got
	12, 4, 2, 13, 10, 0, 11, 9	, 12, 4, 2, 13, 10, 0, 11, 9,
	14, 7, 5, 9, 7, 2, 5, 10,	14, 7, 5, 9, 7, 2, 5, 10,
	2, 2, 8, 11, 8, 7, 6, 10,	2, 2, 8, 11, 8, 7, 6, 10,
	16, 13, 9, 7, 9, 16, 9, 7,	16, 13, 9, 7, 9, 16, 9, 7,
	9, 10, 8, 18, 6, 14, 2, 3,	9, 10, 8, 18, 6, 14, 2, 3,
	0, 16, 10, 4, 5, 12, 8, 8,	0, 16, 10, 4, 5, 12, 8, 8,
	11, 8, 12, 5, 12, 7, 8, 12	, 11, 8, 12, 5, 12, 7, 8, 12,
	2, 4, 4, 10, 18, 15, 10,	2, 4, 4, 10, 18, 15, 10,
	11, 4, 16, 12, 16, 11, 0,	11, 4, 16, 12, 16, 11, 0,
	10, 4, 11, 4, 14, 10, 8,	10, 4, 11, 4, 14, 10, 8,
	12, 5, 11, 15, 5, 1, 17, 9	, 12, 5, 11, 15, 5, 1, 17, 9,
	12, 9, 5, 11, 8, 11, 8, 8,	12, 9, 5, 11, 8, 11, 8, 8,
	9, 7, 2, 10, 9, 1, 2, 8,	9, 7, 2, 10, 9, 1, 2, 8,
	16, 10, 13, 8, 9, 10, 5,	16, 10, 13, 8, 9, 10, 5,
	13, 8, 10, 13, 3, 0, 8, 7,	13, 8, 10, 13, 3, 0, 8, 7,
	8, 0, 7, 9, 2, 13, 16, 7,	8, 0, 7, 9, 2, 13, 16, 7,
	2, 11, 14, 7, 2, 10, 9, 10	, 2, 11, 14, 7, 2, 10, 9, 10,
	17, 12, 9, 7, 14, 4, 3, 11	, 17, 12, 9, 7, 14, 4, 3, 11,
	7, 1, 6, 8, 2, 11, 14, 10,	7, 1, 6, 8, 2, 11, 14, 10,
	6, 7, 9, 16, 6, 15, 11, 7,	6, 7, 9, 16, 6, 15, 11, 7,
	8, 6, 9, 5, 11, 10, 8, 10,	8, 6, 9, 5, 11, 10, 8, 10,
	13, 9, 9, 14, 9, 9, 4, 7,	13, 9, 9, 14, 9, 9, 4, 7,
	15, 6, 10, 7, 9, 10, 10,	15, 6, 10, 7, 9, 10, 10,
	13, 10, 7, 9, 7, 14, 14,	13, 10, 7, 9, 7, 14, 14,
	13, 6, 12, 7, 15, 6, 16,	13, 6, 12, 7, 15, 6, 16,
	10, 17, 15, 7, 9, 2, 8, 10	, 10, 17, 15, 7, 9, 2, 8, 10,
	3, 7, 7, 8, 8, 6, 8, 2, 1,	3, 7, 7, 8, 8, 6, 8, 2, 1,
	5, 11, 5, 16, 12, 11, 15,	5, 11, 5, 16, 12, 11, 15,
	6, 9, 7, 11, 7, 15, 7, 10,	6, 9, 7, 11, 7, 15, 7, 10,
	9, 11, 2, 15, 7, 3, 7, 6,	9, 11, 2, 15, 7, 3, 7, 6,
	8, 8, 11, 10, 7, 10, 2, 11	8, 8, 11, 10, 7, 10, 2, 11,
	7, 18, 7, 13, 12, 15, 14,	7, 18, 7, 13, 12, 15, 14,
	8, 11, 5, 4, 14, 10, 8, 8,	8, 11, 5, 4, 14, 10, 8, 8,
	6, 8, 8, 7, 7, 8, 11, 7, 3	6, 8, 8, 7, 7, 8, 11, 7, 3,
	6, 10, 11, 14, 3, 4, 11,	6, 10, 11, 14, 3, 4, 11,
	11, 17, 13, 10, 3, 13, 13,	11, 17, 13, 10, 3, 13, 13,
	2, 15, 9, 16, 12, 9, 13, 9	2, 15, 9, 16, 12, 9, 13, 9,
	17, 13, 4, 3, 18, 5, 16, 7	, 17, 13, 4, 3, 18, 5, 16, 7,
	11, 6, 7, 13, 10, 4, 9, 9,	11, 6, 7, 13, 10, 4, 9, 9,
	15, 5, 12, 7, 7, 6, 14, 14	, 15, 5, 12, 7, 7, 6, 14, 14,
	13, 7, 9, 9, 13, 6, 8, 10,	13, 7, 9, 9, 13, 6, 8, 10,
	3, 7, 1, 4, 8, 12]	3, 7, 1, 4, 8, 12]

	Test	Expected	Got	
~	int arr[] = {9, 0, 8, 2, 4, 9, 4, 3, 0, 8, 2, 8,	[9, 0, 8, 2, 4, 9, 4, 3, 0,	[9, 0, 8, 2, 4, 9, 4, 3, 0,	~
	4, 5, 7, 5, 9, 2, 2, 4, 0, 4, 2, 3, 6, 6, 2, 3,	8, 2, 8, 4, 5, 7, 5, 9, 2,	8, 2, 8, 4, 5, 7, 5, 9, 2,	
	2, 9, 4, 6, 5, 7, 0, 6, 6, 7, 3, 4, 1, 7, 2, 6, 7, 5, 7, 5, 9, 8, 5, 4, 0, 6, 8, 2, 8, 2, 7, 8,	2, 4, 0, 4, 2, 3, 6, 6, 2, 3, 2, 9, 4, 6, 5, 7, 0, 6,	2, 4, 0, 4, 2, 3, 6, 6, 2, 3, 2, 9, 4, 6, 5, 7, 0, 6,	
	6, 8, 3, 0, 3, 5, 8, 5, 2, 1, 5, 2, 5, 6, 5, 2,	6, 7, 3, 4, 1, 7, 2, 6, 7,	6, 7, 3, 4, 1, 7, 2, 6, 7,	
	4, 1, 0, 2, 8, 2, 9, 8, 2, 1, 0, 5, 8, 0, 5, 9,	5, 7, 5, 9, 8, 5, 4, 0, 6,	5, 7, 5, 9, 8, 5, 4, 0, 6,	
	0, 8, 7, 6, 9, 9, 4, 3, 4, 6, 0, 0, 6, 9, 6, 2,	8, 2, 8, 2, 7, 8, 6, 8, 3,	8, 2, 8, 2, 7, 8, 6, 8, 3,	
	0, 6, 8, 5, 7, 2, 4, 3, 8, 2, 3, 5, 3, 9, 1, 6,	0, 3, 5, 8, 5, 2, 1, 5, 2,	0, 3, 5, 8, 5, 2, 1, 5, 2,	
	1, 8, 7, 8, 0, 4, 6, 7, 2, 6, 8, 0, 7, 9, 2, 0,	5, 6, 5, 2, 4, 1, 0, 2, 8,	5, 6, 5, 2, 4, 1, 0, 2, 8,	
	3, 7, 7, 6, 6, 1, 5, 7, 9, 4, 5, 4, 5, 0, 7, 5, 6, 0, 8, 7, 8, 1, 4, 5, 9, 0, 7, 6, 9, 7, 0, 2,	2, 9, 8, 2, 1, 0, 5, 8, 0, 5, 9, 0, 8, 7, 6, 9, 9, 4,	2, 9, 8, 2, 1, 0, 5, 8, 0, 5, 9, 0, 8, 7, 6, 9, 9, 4,	
	1, 5, 1, 9, 7, 0, 9, 3, 5, 8, 6, 0, 4, 2, 4, 6,	3, 4, 6, 0, 0, 6, 9, 6, 2,	3, 4, 6, 0, 0, 6, 9, 6, 2,	
	5, 0, 9, 5, 8, 6, 2, 6, 7, 5, 9, 2, 9, 0, 3, 4,	0, 6, 8, 5, 7, 2, 4, 3, 8,	0, 6, 8, 5, 7, 2, 4, 3, 8,	
	3, 5, 2, 6, 7, 6, 5, 4, 4, 7, 2, 5, 1, 6, 8, 7,	2, 3, 5, 3, 9, 1, 6, 1, 8,	2, 3, 5, 3, 9, 1, 6, 1, 8,	
	8, 7, 8, 0, 0, 4, 0, 2, 6, 4, 0, 8, 8, 5, 5, 7,	7, 8, 0, 4, 6, 7, 2, 6, 8,	7, 8, 0, 4, 6, 7, 2, 6, 8,	
	7, 8, 8, 7, 4, 8, 7, 2, 9, 8, 6, 9, 7, 8, 6, 4,	0, 7, 9, 2, 0, 3, 7, 7, 6,	0, 7, 9, 2, 0, 3, 7, 7, 6,	
	9, 6, 9, 8, 4, 2, 4, 3, 1, 7, 0, 0, 1, 3, 4, 7, 2, 6, 7, 4, 4, 4, 9, 5, 2, 2, 0, 2, 9, 7, 3, 8,	6, 1, 5, 7, 9, 4, 5, 4, 5, 0, 7, 5, 6, 0, 8, 7, 8, 1,	6, 1, 5, 7, 9, 4, 5, 4, 5, 0, 7, 5, 6, 0, 8, 7, 8, 1,	
	0, 1, 3, 7, 7, 5, 2, 7, 1, 4, 5, 0, 3, 3, 9, 1,	4, 5, 9, 0, 7, 6, 9, 7, 0,	4, 5, 9, 0, 7, 6, 9, 7, 0,	
	8, 6, 7, 1, 0, 1, 3, 9, 0, 1, 7, 4, 3, 8, 0, 5,	2, 1, 5, 1, 9, 7, 0, 9, 3,	2, 1, 5, 1, 9, 7, 0, 9, 3,	
	0, 0, 3, 8, 1, 2, 4, 6, 6, 9, 3, 8, 9, 4, 3, 0,	5, 8, 6, 0, 4, 2, 4, 6, 5,	5, 8, 6, 0, 4, 2, 4, 6, 5,	
	3, 1, 6, 9, 7, 0, 5, 4, 9, 6, 0, 8, 3, 6, 5, 0,	0, 9, 5, 8, 6, 2, 6, 7, 5,	0, 9, 5, 8, 6, 2, 6, 7, 5,	
	6, 4, 4, 1, 6, 1, 2, 9, 4, 4, 9, 0, 2, 2, 4, 8, 8, 4, 0, 7, 5, 2, 3, 9, 1, 8, 6, 8, 1, 4, 8, 4,	9, 2, 9, 0, 3, 4, 3, 5, 2,	9, 2, 9, 0, 3, 4, 3, 5, 2, 6, 7, 6, 5, 4, 4, 7, 2, 5,	
	4, 7, 0, 1, 9, 0, 6, 3, 0, 2, 2, 9, 0, 4, 9, 3,	6, 7, 6, 5, 4, 4, 7, 2, 5, 1, 6, 8, 7, 8, 7, 8, 0, 0,	1, 6, 8, 7, 8, 7, 8, 0, 0,	
	3, 8, 3, 3, 8, 6, 4, 8, 3, 2, 9, 7, 3, 9, 1, 4,	4, 0, 2, 6, 4, 0, 8, 8, 5,	4, 0, 2, 6, 4, 0, 8, 8, 5,	
	8, 0, 9, 3, 6, 2, 4, 0, 8, 1, 3, 1, 5, 6, 9, 5,	5, 7, 7, 8, 8, 7, 4, 8, 7,	5, 7, 7, 8, 8, 7, 4, 8, 7,	
	8, 5, 4, 0, 2, 7, 3, 0, 5, 1, 9, 8, 0, 0, 0, 5,	2, 9, 8, 6, 9, 7, 8, 6, 4,	2, 9, 8, 6, 9, 7, 8, 6, 4,	
	1, 2, 1, 1, 1, 3, 3, 1, 4, 0, 8, 4, 9, 2, 8, 0,	9, 6, 9, 8, 4, 2, 4, 3, 1,	9, 6, 9, 8, 4, 2, 4, 3, 1,	
	2, 2, 8, 6, 5, 4, 9, 7, 5, 2, 6, 3, 8, 1, 1, 7,	7, 0, 0, 1, 3, 4, 7, 2, 6,	7, 0, 0, 1, 3, 4, 7, 2, 6,	
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	2, 9, 2, 5, 8, 6, 4, 3, 7, 2, 3, 5, 6, 8, 9, 4,	7, 5, 2, 7, 1, 4, 5, 0, 3,	7, 5, 2, 7, 1, 4, 5, 0, 3,	
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10.47 P	VI Sliigiy L	Inked List (CC06). Attempt review	DK-LIVIS
	Test	Expected	Got
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	9, 6, 3, 0, 9, 7, 8, 9, 8, 6, 7, 0, 1, 8, 6, 3,	9, 3, 7, 1, 7, 9, 3, 2, 3,	9, 3, 7, 1, 7, 9, 3, 2, 3,
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Test	Expected	Got
0, 6, 8, 9, 2, 2, 0, 5, 3, 8, 5, 7, 3, 5, 4, 7, 8, 8, 7, 7, 5, 6, 4, 8, 6, 9, 7, 4, 9, 7, 7, 5, 3, 4, 2, 3, 0, 9, 4, 5, 5, 8, 9, 5, 9, 0, 5, 4, 7, 4, 2, 4, 8, 4, 9, 5, 5, 0, 8, 4, 1, 6, 5, 3, 4, 8, 7, 3, 8, 4, 2, 2, 8, 3, 4, 0, 8, 8, 5, 5, 4, 1, 2, 4, 8, 6, 3, 4, 3, 6, 0, 5, 3, 9, 9, 9, 2, 1, 6, 2, 6, 8, 2, 4, 5, 6, 6, 9, 7, 7, 0, 5, 1, 6, 6, 6, 3, 5, 5, 8, 2, 7, 7, 6, 9, 1, 2, 8, 7, 5, 5, 1, 0, 3, 8, 7, 7, 2, 5, 1, 2, 6, 8, 7, 0, 6, 8, 4, 8, 1, 7, 6, 7, 0, 1, 8, 2, 8, 2, 0, 4, 0, 6, 3, 3, 2, 1, 2, 4, 7, 9, 1, 8, 5, 4, 9, 5, 0, 4, 1, 1, 7, 7, 2, 9, 7, 9, 5, 9, 4, 9, 7, 6, 2, 1, 1, 6, 3, 7, 2, 2, 4, 7, 2, 2, 5, 3, 8, 6, 3, 8, 7, 4, 1, 8, 3, 0, 6, 3, 0, 0, 7, 4, 6, 5, 1, 7, 4, 0, 1, 7, 9, 6, 7, 8, 7, 7, 5, 7, 8, 9, 3, 9, 1, 8, 7, 2, 8, 0, 5, 6, 7, 9, 7, 3, 8, 2, 0, 0, 2, 0, 4, 8, 5, 9, 2, 6, 3, 7, 1, 0, 8, 7, 1, 8, 2, 0, 9, 9, 6, 6, 4, 8, 0, 9, 6, 0, 7, 4, 1, 6, 2, 2, 7, 3, 7, 4, 1, 5, 8, 6, 1, 6, 2, 1, 6, 7, 0, 8, 3, 0, 2, 9, 5, 3, 6, 1, 8, 4, 3, 7, 7, 2, 3, 8, 4, 6, 7, 6, 0, 0, 5, 7, 4, 0, 3, 0, 2, 0, 0, 4, 8, 9, 3, 6, 2, 2, 2, 2, 3, 3, 1, 1, 4, 5, 0, 1, 6, 9, 0, 3, 3, 1, 2, 1, 5, 9, 2, 2, 4, 7, 9, 3, 4, 6, 7, 8, 8, 9, 3, 4, 5, 2, 2, 4, 7, 9, 3, 4, 0, 0, 1, 0, 2, 6, 9, 7, 3, 8, 8, 8, 0, 4, 2, 4, 1, 9, 3, 8, 3, 5, 1, 8, 6, 6, 8, 6, 0, 7, 2, 8, 9, 4, 3, 4, 2, 3, 3, 1, 8, 4, 9, 5, 6, 1, 9, 7, 2, 8, 9, 3, 9, 3, 9, 3, 4, 5, 2, 2, 4, 7, 9, 3, 4, 0, 0, 1, 0, 2, 6, 9, 7, 3, 8, 8, 8, 0, 4, 2, 4, 1, 9, 3, 8, 3, 5, 1, 8, 6, 6, 8, 6, 0, 7, 2, 8, 9, 4, 3, 4, 2, 3, 3, 1, 8, 4, 9, 5, 6, 1, 9, 7, 8, 5, 8, 2, 9, 2, 4, 7, 4, 9, 7, 4, 7, 3, 6, 9, 9, 3, 0, 5, 1, 3, 3, 6, 5, 4, 7, 2, 9, 4, 0, 4, 1, 7, 7, 8, 5, 1, 9, 4, 5, 7, 2, 8, 8, 3, 5, 4, 5, 4, 9, 8, 0, 5, 3, 2, 6, 4, 3, 5, 3, 3, 5, 3, 2, 4, 0, 0, 4, 2, 0, 7, 1, 1, 6, 0, 1, 4, 5, 6, 4, 7, 3, 9, 6, 3}; LLNode* head = LLNode::createWithIterators(arr,	9, 7, 8, 9, 8, 6, 7, 0, 1, 8, 6, 3, 2, 8, 2, 9, 0, 6, 4, 8, 3, 7, 8, 9, 0, 4, 4, 0, 8, 0, 4, 9, 5, 8, 7, 7, 4, 8, 1, 8, 3, 1, 6, 7, 4, 8, 3, 9, 5, 9, 8, 8, 0, 3, 2, 1, 6, 8, 9, 3, 7, 4, 1, 7, 8, 8, 8, 2, 7, 3, 0, 8, 2, 5, 9, 7, 0, 4, 2, 7, 9, 8, 9, 5, 1, 0, 8, 8, 6, 4, 9, 0, 0, 9, 4, 8, 9, 8, 8, 6, 8, 2, 7, 8, 6, 5, 3, 3, 6, 3, 1, 1, 0, 2, 0, 7, 0, 4, 6, 2, 6, 0, 9, 6, 7, 6, 9, 0, 5, 0, 9, 3, 3, 4, 0, 6, 5, 8, 2, 5, 3, 1, 5, 7, 6, 7, 6, 6, 9, 9, 8, 9, 7, 3, 5, 4, 7, 8, 7, 1, 3, 9, 1, 6, 3, 0, 0, 2, 0, 6, 8, 3, 0, 1, 3, 0, 5, 8, 2, 3,snip 2, 16, 6, 6, 9, 15, 13, 8, 4, 2, 15, 7, 10, 5, 11, 11, 7, 10, 8, 12, 8, 4, 4, 9, 5, 11, 16, 9, 13, 16, 4, 8, 5, 12, 11, 17, 8, 9, 10, 10, 8, 5, 5, 8, 6, 10, 5, 14, 13, 10, 7, 13, 15, 2, 5, 4, 11, 3, 10, 7, 13, 15, 2, 5, 4, 11, 3, 10, 7, 13, 15, 2, 5, 4, 11, 3, 10, 7, 13, 15, 2, 5, 4, 11, 3, 10, 5, 11, 9, 1, 13, 7, 6, 12, 10, 8, 8, 12, 11, 1, 9, 6, 5, 9, 17, 12, 13, 14, 3, 3, 2, 10, 13, 9, 4, 3, 3, 0, 8, 6, 11, 6, 1, 12, 9, 14, 8, 18, 13, 13, 6, 15, 16, 11, 3, 10, 12, 11, 10, 13, 9, 7, 6, 9, 12, 16, 12, 6, 5,	9, 7, 8, 9, 8, 6, 7, 0, 1, 8, 6, 3, 2, 8, 2, 9, 0, 6, 4, 8, 3, 7, 8, 9, 0, 4, 4, 0, 8, 0, 4, 9, 5, 8, 7, 7, 4, 8, 1, 8, 3, 1, 6, 7, 4, 8, 3, 9, 5, 9, 8, 8, 0, 3, 2, 1, 6, 8, 9, 3, 7, 4, 1, 7, 8, 8, 8, 2, 7, 3, 0, 8, 2, 5, 9, 7, 0, 4, 2, 7, 9, 8, 9, 5, 1, 0, 8, 8, 6, 4, 9, 0, 0, 9, 4, 8, 9, 8, 8, 6, 8, 2, 7, 8, 6, 5, 3, 3, 6, 3, 1, 1, 0, 2, 0, 7, 0, 4, 6, 2, 6, 0, 9, 6, 7, 6, 9, 0, 5, 0, 9, 3, 3, 4, 0, 6, 5, 8, 2, 5, 3, 1, 5, 7, 6, 7, 6, 6, 9, 8, 0, 7, 3, 5, 4, 7, 8, 7, 1, 3, 9, 1, 6, 3, 0, 0, 2, 0, 6, 8, 3, 0, 1, 3, 0, 5, 8, 2, 3,snip 2, 16, 6, 6, 9, 15, 13, 8, 4, 2, 15, 7, 10, 5, 11, 11, 7, 10, 8, 12, 8, 4, 4, 9, 5, 11, 16, 9, 13, 16, 4, 8, 5, 12, 11, 17, 8, 9, 10, 10, 8, 5, 5, 8, 6, 10, 5, 14, 13, 10, 7, 13, 15, 2, 5, 4, 11, 3, 10, 7, 13, 15, 2, 5, 4, 11, 3, 10, 5, 11, 9, 1, 13, 7, 6, 12, 10, 8, 8, 12, 11, 1, 9, 6, 5, 9, 17, 12, 13, 14, 3, 3, 2, 10, 13, 9, 4, 3, 3, 0, 8, 6, 11, 6, 1, 12, 9, 14, 8, 18, 13, 13, 6, 15, 16, 11, 3, 10, 12, 11, 10, 13, 9, 7, 6, 9, 12, 16, 12, 6, 5,
0, 1, 4, 5, 6, 4, 7, 3, 9, 6, 3};	3, 10, 12, 11, 10, 13, 9,	3, 10, 12, 11, 10, 13, 9,

	Test	Expected	Got	
		6, 3, 8, 15, 2, 6, 7, 2,	6, 3, 8, 15, 2, 6, 7, 2,	
		12, 10, 2, 13, 9, 6, 11, 8, 0, 12, 9, 16, 6, 9, 9, 10,	12, 10, 2, 13, 9, 6, 11, 8, 0, 12, 9, 16, 6, 9, 9, 10,	
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		12, 10, 16, 5, 4, 7, 8, 13,	12, 10, 16, 5, 4, 7, 8, 13,	
		9, 10, 17, 8, 7, 15, 7, 8,	9, 10, 17, 8, 7, 15, 7, 8,	
		7, 14, 16, 3, 12, 7, 3, 10,	7, 14, 16, 3, 12, 7, 3, 10,	
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		16, 14, 13, 11, 11, 6, 3,	16, 14, 13, 11, 11, 6, 3,	
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		15, 10, 9, 9, 15, 10, 5, 7,	15, 10, 9, 9, 15, 10, 5, 7,	
1	1		I .	1

J:47 PM	Singly Linked List (CC08): Attempt revie	W BK-LMS
Test	Expected	Got
	13, 9, 11, 12, 5, 15, 8, 2,	13, 9, 11, 12, 5, 15, 8, 2,
	17, 3, 6, 6, 8, 16, 13, 11,	17, 3, 6, 6, 8, 16, 13, 11,
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	12, 11, 7, 13, 10, 10, 2,	12, 11, 7, 13, 10, 10, 2,
	0, 16, 10, 8, 17, 4, 0, 11,	0, 16, 10, 8, 17, 4, 0, 11,
	11, 11, 15, 8, 12, 4, 16,	11, 11, 15, 8, 12, 4, 16,
	12, 2, 14, 8, 4, 7, 2, 2,	12, 2, 14, 8, 4, 7, 2, 2,
	14, 4, 10, 8, 3, 9, 16, 15,	14, 4, 10, 8, 3, 9, 16, 15,
	7, 15, 6, 7, 14, 14, 9, 14,	7, 15, 6, 7, 14, 14, 9, 14,
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	16, 11, 10, 12, 12, 10, 11,	16, 11, 10, 12, 12, 10, 11,
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	10, 5, 14, 8, 6, 6, 9, 8,	10, 5, 14, 8, 6, 6, 9, 8,
	9, 9, 13, 9, 13, 7, 14, 11,	9, 9, 13, 9, 13, 7, 14, 11,
	1, 7, 4, 7, 9, 10, 18, 14,	1, 7, 4, 7, 9, 10, 18, 14,
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	14, 2, 9, 4, 8, 10, 13, 11,	14, 2, 9, 4, 8, 10, 13, 11,
	5, 17, 6, 12]	5, 17, 6, 12]

	Test	Expected	Got	
		-		
~	int arr[] = {6, 5, 8, 2, 3, 1, 3, 7, 7, 9, 0, 4, 4, 8, 4, 2, 1, 9, 4, 3, 3, 6, 4, 4, 2, 5, 3, 7,	[6, 5, 8, 2, 3, 1, 3, 7, 7, 9, 0, 4, 4, 8, 4, 2, 1, 9,	[6, 5, 8, 2, 3, 1, 3, 7, 7, 9, 0, 4, 4, 8, 4, 2, 1, 9,	~
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	0, 6, 5, 1, 2, 3, 5, 7, 1, 9, 1, 4, 8, 6, 1, 9,	2, 3, 2, 4, 8, 9, 3, 1, 9,	2, 3, 2, 4, 8, 9, 3, 1, 9,	
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	9, 8, 4, 1, 8, 4, 3, 8, 9, 0, 1, 1, 4, 6, 4, 7, 1, 9, 1, 5, 4, 5, 9, 0, 2, 8, 5, 4, 1, 6, 3, 3,	1, 8, 8, 7, 3, 1, 7, 1, 9, 2, 8, 5, 5, 3, 7, 1, 6, 6,	1, 8, 8, 7, 3, 1, 7, 1, 9, 2, 8, 5, 5, 3, 7, 1, 6, 6,	
	7, 8, 6, 5, 0, 3, 7, 7, 3, 9, 6, 4, 3, 2, 7, 9,	4, 2, 0, 6, 5, 1, 2, 3, 5,	4, 2, 0, 6, 5, 1, 2, 3, 5,	
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10.47 PM	Singly	Linked List (CC06). Attempt review	DK-LIVIS
Test		Expected	Got
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	2, 5, 9, 9, 1, 4, 9, 0, 2, 3, 2, 3, 1,	0, 4, 1, 7, 0, 0, 8, 7, 0,	0, 4, 1, 7, 0, 0, 8, 7, 0,
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	snip 1, 2, 8, 7, 4, 9, 4, 8, 6,	2, 8, 0, 5, 6, 4, 0, 6, 8,	2, 8, 0, 5, 6, 4, 0, 6, 8,
	5, 8, 6, 0, 1, 2, 0, 6, 6, 6, 4, 4, 7,	3, 3, 5, 7, 3, 5, 7, 5, 2,	3, 3, 5, 7, 3, 5, 7, 5, 2,
	7, 6, 8, 3, 8, 3, 4, 6, 1, 7, 1, 1, 1,	6, 4, 1, 1, 2, 4, 2, 8, 0,	6, 4, 1, 1, 2, 4, 2, 8, 0,
	1, 4, 3, 1, 8, 9, 8, 3, 3, 5, 2, 9, 9,	0, 9, 4, 6, 1, 0, 8, 1, 3,	0, 9, 4, 6, 1, 0, 8, 1, 3, 2, 5, 8, 0, 0, 4, 1, 8, 9,
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1, 9, 3,	5, 2, 5, 3, 9, 3, 6, 1, 3, 2, 0, 8, 4,	8, 3, 7, 2, 2, 6, 0, 5, 8,	8, 3, 7, 2, 2, 6, 0, 5, 8,
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	_, _, _, _, _, ,, ,, ,, ,, ,, ,, ,, ,, ,	_, _, ,, _, ,, _, ,, _, _, _, _, _, _,	_, _, ., _, 0, ¬, 0, ±, 2,

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

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

```
Question 11
Correct
Mark 1.00 out of 1.00
```

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

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

Given a singly linked list head node.

Your task is to implement a function with following prototype:

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

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

Note

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

Answer: (penalty regime: 0 %)

Reset answer

```
1 • LLNode* replaceFirstGreater(LLNode* head) {
 2
        // STUDENT ANSWER
 3
        LLNode* temp1=head,*temp2;
 4 •
        while(temp1!=nullptr){
 5
             bool changed=0;
 6
             temp2=temp1->next;
 7 ,
             while(temp2!=nullptr){
 8
                 if(temp1->val<temp2->val){
 9
                     temp1->val=temp2->val;
10
                     changed=1;
11
                     break;
12
                 }
13
                 temp2=temp2->next;
14
15
             if(!changed){
16
                 temp1->val=0;
17
18
             temp1=temp1->next;
19
        }
20
        return head;
21
```

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

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

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

 ✓ Intarr[1] = (0, 0, 3, 2, 2, 5, 9, 4, 9, 5, 9, 2, 2 S. 5, 1, 6, 5, 1, 0, 2, 4, 3, 2, 1, 0, 4, 8, 8, 6, 6 S. 7, 15, 7, 7, 2, 2, 0, 7, 6, 7, 8, 9, 9, 8, 9, 6 S. 7, 15, 1, 15, 7, 0, 4, 8, 4, 9, 6, 16, 15, 8, 9, 6 S. 6, 5, 1, 14, 3, 5, 1, 7, 4, 4, 6, 3, 8, 5, 4 S. 7, 15, 1, 15, 7, 0, 4, 8, 4, 8, 6, 13, 8, 5, 4 S. 7, 15, 15, 17, 0, 4, 8, 4, 8, 6, 13, 8, 5, 4 S. 7, 15, 15, 17, 17, 17, 14, 4, 6, 3, 8, 5, 4 S. 7, 15, 15, 15, 17, 17, 14, 4, 6, 3, 8, 5, 4 S. 7, 16, 14, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14		Test	Expected	Got	
3, 1, 5, 7, 7, 2, 2, 0, 7, 6, 3, 9, 9, 5, 4, 5, 4, 7, 5, 11, 8, 12, 14, 5, 5, 2, 7, 2, 8, 7, 6, 6, 9, 6, 6, 2, 5, 11, 3, 7, 4, 4, 6, 3, 8, 5, 4, 4, 5, 5, 2, 5, 13, 9, 7, 4, 4, 6, 3, 8, 5, 4, 4, 6, 6, 13, 13, 2, 5, 14, 19, 5, 9, 4, 8, 8, 6, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	~	0, 5, 4, 9, 9, 4, 8, 6, 6, 1, 7, 4, 9, 0, 6, 9,	0, 2, 2, 0, 5, 4, 9, 9, 4,	0, 2, 2, 0, 5, 4, 9, 9, 4,	~
3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,					
1, 6, 2, 8, 5, 1, 4, 5, 5, 2, 7, 2, 8, 7, 6, 6, 1, 9, 9, 6, 1, 1, 1, 7, 7, 2, 2, 0, 7, 6, 1, 9, 5, 5, 1, 3, 3, 0, 6, 1, 10, 4, 4, 5, 11, 2, 0, 0, 1, 4, 14, 7, 5, 1, 9, 5, 4, 5, 14, 7, 5, 1, 9, 15, 15, 14, 16, 16, 16, 16, 16, 16, 16, 16, 16, 16					
1, 5, 5, 3, 3, 0, 6, 1, 0, 4, 4, 5, 11, 2, 0, 0, 4, 4, 3, 7, 2, 5, 5, 1, 9, 5, 1, 9, 5, 9, 4, 0, 9, 0, 1, 4, 4, 5, 5, 2, 7, 2, 8, 7, 1, 4, 5, 5, 2, 7, 2, 8, 7, 1, 4, 5, 5, 2, 7, 2, 8, 7, 1, 4, 5, 5, 2, 7, 2, 8, 7, 1, 4, 5, 5, 2, 7, 2, 8, 7, 1, 4, 5, 5, 2, 7, 2, 8, 7, 1, 4, 5, 5, 5, 2, 7, 2, 8, 7, 2, 8, 7, 1, 4, 5, 5, 5, 2, 7, 2, 8, 7, 2, 8, 7, 1, 4, 5, 5, 5, 2, 7, 2, 8, 7, 2, 8, 7, 1, 4, 5, 5, 5, 2, 7, 2, 8, 7, 2, 8, 7, 1, 4, 5, 5, 5, 2, 7, 2, 8, 7, 2, 8, 7, 2, 8, 7, 1, 4, 5, 5, 5, 2, 7, 2, 8, 7, 2, 8, 7, 1, 4, 5, 5, 5, 1, 3, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,					
1, 4, 3, 5, 2, 5, 5, 1, 9, 5, 9, 4, 0, 8, 7, 5, 5, 8, 9, 6, 9, 6, 2, 8, 5, 3, 4, 0, 3, 2, 5, 11, 9, 5, 9, 5, 4, 0, 9, 11, 4, 4, 5, 5, 2, 7, 2, 8, 7, 7, 6, 1, 4, 5, 4, 5, 4, 9, 4, 9, 6, 1, 6, 1, 0, 3, 6, 6, 8, 7, 7, 6, 1, 4, 5, 4, 5, 4, 9, 4, 9, 6, 1, 6, 1, 1, 9, 5, 8, 6, 6, 8, 9, 5, 1, 3, 7, 4, 8, 3, 7, 8, 7, 8, 9, 6, 6, 8, 0, 5, 1, 1, 3, 7, 4, 8, 3, 7, 8, 7, 8, 4, 7, 4, 8, 3, 7, 8, 7, 8, 1, 4, 2, 7, 3, 8, 1, 1, 4, 9, 4, 8, 6, 2, 5, 8, 1, 6, 7, 7, 8, 1, 4, 6, 2, 7, 8, 8, 1, 6, 7, 7, 8, 1, 4, 4, 2, 7, 3, 8, 1, 1, 1, 4, 9, 4, 8, 6, 2, 5, 8, 1, 6, 7, 2, 8, 2, 5, 1, 9, 5, 9, 3, 3, 9, 2, 1, 4, 8, 8, 1, 6, 7, 5, 5, 1, 9, 5, 9, 1, 4, 6, 2, 5, 1, 9, 5, 9, 1, 4, 6, 2, 5, 1, 9, 5, 9, 1, 4, 6, 2, 5, 1, 9, 5, 9, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,					
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	4, 0, 9, 5, 2, 8, 5, 6, 2,	4, 0, 9, 5, 2, 8, 5, 6, 2,
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	4, 0, 3, 4, 8, 1, 1, 3, 0,	4, 0, 3, 4, 8, 1, 1, 3, 0,
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	8, 7, 4, 2, 7, 4, 3, 1, 7,	8, 7, 4, 2, 7, 4, 3, 1, 7,
	2, 6, 6, 4, 9, 1, 0, 6, 4,	2, 6, 6, 4, 9, 1, 0, 6, 4,
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	8, 8, 9, 9, 9, 4, 5, 3, 5,	8, 8, 9, 9, 9, 4, 5, 3, 5,

, '	0.47 1 1	VI Olligiy L	inked List (0000). Attempt review	DIV-LIVIO
		Test	Expected	Got
			5, 9, 9, 0, 0, 9, 9, 9, 0,	5, 9, 9, 0, 0, 9, 9, 9, 0,
			1, 4, 7, 8, 4, 4, 5, 6, 6,	1, 4, 7, 8, 4, 4, 5, 6, 6,
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			6, 9, 0, 7, 9, 9, 4, 5, 9,	6, 9, 0, 7, 9, 9, 4, 5, 9,
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			9, 5, 7, 3, 7, 8, 8, 9, 7,	9, 5, 7, 3, 7, 8, 8, 9, 7,
			8, 9, 9, 0, 9, 0, 8, 2, 3,	8, 9, 9, 0, 9, 0, 8, 2, 3,
			8, 8, 9, 9, 6, 9, 9, 9, 0,	8, 8, 9, 9, 6, 9, 9, 9, 0,
			9, 4, 4, 7, 7, 9, 9, 0, 4,	9, 4, 4, 7, 7, 9, 9, 0, 4,
			4, 9, 0, 8, 9, 8, 5, 8, 9,	4, 9, 0, 8, 9, 8, 5, 8, 9,
			9, 7, 7, 1, 7, 9, 3, 9, 9,	9, 7, 7, 1, 7, 9, 3, 9, 9,
			0, 8, 8, 9, 6, 7, 9, 7, 7,	0, 8, 8, 9, 6, 7, 9, 7, 7,
			9, 9, 9, 0, 3, 4, 7, 8, 9,	9, 9, 9, 0, 3, 4, 7, 8, 9,
			7, 8, 9, 8, 9, 5, 8, 8, 8,	7, 8, 9, 8, 9, 5, 8, 8, 8,
			8, 9, 2, 9, 0, 9, 0, 0, 7,	8, 9, 2, 9, 0, 9, 0, 0, 7,
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				0, 8, 2, 8, 9, 7, 7, 1, 7,
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			6, 8, 9, 5, 5, 5, 5, 9, 0,	6, 8, 9, 5, 5, 5, 5, 9, 0,
			9, 0, 4, 4, 9, 9, 9, 0, 9,	9, 0, 4, 4, 9, 9, 9, 0, 9,
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				7, 6, 7, 7, 8, 5, 5, 6, 6,
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			, , , , , , , , , o, o, o,	, ,, o,

Test	Expected	Got
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	9, 0, 9, 0, 9, 9, 2, 2,	2, 9, 0, 9, 0, 9, 9, 2, 2, 2,
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	8, 7, 7, 8, 9, 0, 6, 7,	9, 8, 7, 7, 8, 9, 0, 6, 7, 9,
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	0, 8, 9, 8, 5, 5, 8, 8,	4, 0, 8, 9, 8, 5, 5, 8, 8, 4,
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	4, 9, 9, 9, 0, 8, 9, 7,	8, 4, 9, 9, 9, 0, 8, 9, 7, 8,
	9, 9, 0, 9, 9, 9, 0, 7,	8, 9, 9, 0, 9, 9, 9, 0, 7, 8,
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	0, 9, 1, 9, 0, 9, 0, 7,	8, 0, 9, 1, 9, 0, 9, 0, 7, 8,
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	8, 8, 9, 3, 4, 9, 9, 0,	0, 8, 8, 9, 3, 4, 9, 9, 0, 0,
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	Test	Expected	Got	
~	int arr[] = {9, 4, 4, 4, 4, 3, 6, 1, 6, 9, 4, 9,	[9, 4, 4, 4, 4, 3, 6, 1, 6,	[9, 4, 4, 4, 4, 3, 6, 1, 6,	~
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	1, 9, 9, 2, 9, 2, 0, 8, 8, 1, 1, 6, 1, 2, 9, 7,	0, 5, 1, 8, 0, 2, 6, 5, 4,	0, 5, 1, 8, 0, 2, 6, 5, 4,	
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T	est	Expected	Got
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8	3, 7, 1, 9, 5, 9, 1, 3, 5, 2, 2, 7, 6, 9, 7, 7,	3, 3, 2, 2, 1, 6, 7, 1, 5,	3, 3, 2, 2, 1, 6, 7, 1, 5,
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3	8, 0, 8, 0, 4, 6, 5, 1, 7, 0, 2, 0, 5, 2, 7, 9,	1, 6, 2, 9, 9, 0, 3, 8, 7,	1, 6, 2, 9, 9, 0, 3, 8, 7,
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Tork	Evnocted	Cat
Test	Expected	Got
3, 5, 8, 1, 2, 9, 3, 7, 6, 0, 2, 2, 2, 3, 7, 8,	1, 1, 4, 0, 3, 4, 2, 2, 6,	1, 1, 4, 0, 3, 4, 2, 2, 6,
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, 6, 2, 6, 8, 3, 7, 8, 5, 9, 7, 4, 9, 0, 1, 2, , 1, 0, 3, 7, 8, 0, 5, 8, 0, 9, 1, 6, 5, 9, 8,	0, 6, 0, 5, 5, 1, 3, 7, 3, 2, 7, 5, 2, 7, 1, 1, 5, 0,	0, 6, 0, 5, 5, 1, 3, 7, 3, 2, 7, 5, 2, 7, 1, 1, 5, 0,
8, 8, 0, 1, 4, 2, 9, 4, 3, 9, 8, 6, 9, 1, 4,	4, 0, 3, 2, 3, 4, 5, 0,	4, 0, 3, 2, 3, 4, 5, 0,
, 9, 5, 9, 9, 8, 4, 7, 2, 9, 0, 6, 3, 1, 0, 7,	snip 4, 8, 9, 5, 5,	snip 4, 8, 9, 5, 5,
, 7, 8, 6, 6, 2, 7, 9, 5, 6, 9, 1, 3, 3, 2, 5,	8, 8, 9, 8, 6, 7, 8, 3, 8,	8, 8, 9, 8, 6, 7, 8, 3, 8,
, 8, 7, 5, 0, 7, 8, 3, 4, 3, 9, 2, 6, 9, 9, 1,	8, 9, 5, 5, 9, 9, 0, 1, 6,	8, 9, 5, 5, 9, 9, 0, 1, 6,
, 6, 0, 8, 1, 0, 8, 5, 8, 7, 3, 2, 3, 3, 8, 7,	8, 9, 3, 8, 9, 7, 3, 3, 6,	8, 9, 3, 8, 9, 7, 3, 3, 6,
, 9, 5, 5, 5, 4, 4, 2, 9, 7, 0, 8, 6, 7, 1, 6,	6, 7, 7, 6, 6, 6, 5, 6, 7,	6, 7, 7, 6, 6, 6, 5, 6, 7,
8, 8, 6, 6, 4, 2, 2, 7, 2, 7, 9, 6, 3, 4, 0, 7,	7, 9, 7, 7, 9, 4, 5, 7, 7,	7, 9, 7, 7, 9, 4, 5, 7, 7,
, 2, 1, 6, 7, 9, 3, 6, 6, 5, 3, 1, 1, 2, 4, 4,	7, 9, 9, 0, 8, 8, 8, 8, 9,	7, 9, 9, 0, 8, 8, 8, 8, 9,
, 7, 9, 1, 4, 8, 0, 1, 4, 1, 7, 2, 7, 2, 6, 0,	8, 8, 9, 4, 4, 9, 9, 9, 0,	8, 8, 9, 4, 4, 9, 9, 9, 0,
, 4, 2, 8, 9, 0, 1, 4, 8, 4, 0, 8, 8, 2, 8, 9,	0, 6, 6, 6, 9, 9, 0, 3, 3,	0, 6, 6, 6, 9, 9, 0, 3, 3,
0, 6, 3, 6, 5, 3, 8, 6, 1, 4, 3, 0, 5, 7, 6, 6,	6, 7, 7, 7, 2, 7, 8, 8, 9,	6, 7, 7, 7, 2, 7, 8, 8, 9,
, 1, 2, 5, 2, 6, 2, 2, 8, 3, 1, 9, 8, 8, 9, 2,	9, 0, 6, 9, 9, 4, 9, 3, 9,	9, 0, 6, 9, 9, 4, 9, 3, 9,
, 6, 4, 4, 6, 0, 4, 4, 0, 4, 0, 6, 4, 1, 4, 5,	0, 9, 0, 5, 5, 8, 9, 8, 9, 8, 8, 9, 7, 7, 9, 9, 0, 2,	0, 9, 0, 5, 5, 8, 9, 8, 9, 8, 8, 9, 7, 7, 9, 9, 0, 2,
, 0, 7, 4, 5, 8, 8, 6, 2, 0, 0, 2, 4, 3, 3, 0, , 9, 8, 4, 0, 9, 6, 9, 6, 7, 0, 0, 8, 6, 8, 1,	4, 4, 9, 0, 6, 8, 8, 8, 9,	4, 4, 9, 0, 6, 8, 8, 8, 9,
6, 9, 5, 9, 1, 5, 1, 9};	8, 9, 1, 4, 8, 8, 8, 9, 9,	8, 9, 1, 4, 8, 8, 8, 9, 9,
LNode* head = LLNode::createWithIterators(arr,	0, 7, 8, 4, 4, 8, 9, 5, 6,	0, 7, 8, 4, 4, 8, 9, 5, 6,
rr + sizeof(arr) / sizeof(int));	7, 9, 4, 7, 9, 6, 6, 9, 5,	7, 9, 4, 7, 9, 6, 6, 9, 5,
LNode::printList(head);	9, 5, 9, 0, 8, 9, 7, 9, 4,	9, 5, 9, 0, 8, 9, 7, 9, 4,
out << "\n";	5, 6, 7, 7, 9, 7, 4, 4, 5,	5, 6, 7, 7, 9, 7, 4, 4, 5,
<pre>Node* newhead = replaceFirstGreater(head);</pre>	5, 7, 7, 9, 7, 5, 7, 5, 7,	5, 7, 7, 9, 7, 5, 7, 5, 7,
LNode::printList(newhead);	7, 9, 6, 9, 9, 0, 5, 8, 9,	7, 9, 6, 9, 9, 0, 5, 8, 9,
	3, 3, 3, 5, 6, 1, 6, 9, 0,	3, 3, 3, 5, 6, 1, 6, 9, 0,
	3, 5, 7, 9, 7, 9, 4, 7, 9,	3, 5, 7, 9, 7, 9, 4, 7, 9,
	9, 6, 6, 7, 9, 7, 6, 2, 2,	9, 6, 6, 7, 9, 7, 6, 2, 2,
	2, 6, 6, 6, 7, 9, 3, 9, 0, 9, 9, 6, 9, 9, 9, 9, 0, 8,	2, 6, 6, 6, 7, 9, 3, 9, 0, 9, 9, 6, 9, 9, 9, 9, 0, 8,
	8, 9, 8, 8, 9, 9, 9, 0, 9,	8, 9, 8, 8, 9, 9, 9, 0, 9,
	0, 3, 5, 7, 7, 7, 9, 9, 0,	0, 3, 5, 7, 7, 7, 9, 9, 0,
	9, 9, 7, 9, 9, 0, 8, 2, 8,	9, 9, 7, 9, 9, 0, 8, 2, 8,
	9, 0, 5, 5, 7, 8, 6, 6, 2,	9, 0, 5, 5, 7, 8, 6, 6, 2,
	6, 6, 8, 9, 3, 9, 9, 0, 9,	6, 6, 8, 9, 3, 9, 9, 0, 9,
	9, 0, 8, 9, 8, 7, 8, 8, 8,	9, 0, 8, 9, 8, 7, 8, 8, 8,
	6, 8, 8, 9, 5, 7, 9, 0, 9,	6, 8, 8, 9, 5, 7, 9, 0, 9,
	7, 9, 5, 5, 9, 0, 9, 9, 0,	7, 9, 5, 5, 9, 0, 9, 9, 0,
	3, 2, 3, 5, 6, 8, 8, 9, 8,	3, 2, 3, 5, 6, 8, 8, 9, 8,
	8, 8, 9, 9, 9, 0, 8, 8, 9,	8, 8, 9, 9, 9, 0, 8, 8, 9,
	5, 9, 0, 9, 6, 7, 7, 8, 7,	5, 9, 0, 9, 6, 7, 7, 8, 7,
	8, 9, 0, 6, 7, 8, 8, 9, 8,	8, 9, 0, 6, 7, 8, 8, 9, 8,
	9, 0, 5, 5, 9, 0, 9, 5, 7,	9, 0, 5, 5, 9, 0, 9, 5, 7,
	9, 5, 6, 7, 7, 9, 7, 9, 6, 9, 0, 8, 8, 8, 9, 0, 8, 8,	9, 5, 6, 7, 7, 9, 7, 9, 6,
	9, 9, 0, 7, 9, 5, 9, 0, 8,	9, 0, 8, 8, 8, 9, 0, 8, 8, 9, 9, 9, 0, 8,
	8, 8, 3, 8, 9, 6, 6, 8, 8,	8, 8, 3, 8, 9, 6, 6, 8, 8,
	9, 4, 6, 9, 3, 9, 0, 0, 2,	9, 4, 6, 9, 3, 9, 0, 0, 2,

, '	0.77 1 1	vi Olligiy L	illiked List (0000). Attempt review	DIV-LIVIO
		Test	Expected	Got
			7, 7, 7, 8, 7, 7, 8, 4, 5,	7, 7, 7, 8, 7, 7, 8, 4, 5,
			6, 6, 7, 8, 1, 2, 5, 2, 5,	6, 6, 7, 8, 1, 2, 5, 2, 5,
				5, 5, 6, 8, 9, 8, 6, 8, 8,
			9, 5, 7, 7, 8, 5, 5, 8, 9,	9, 5, 7, 7, 8, 5, 5, 8, 9,
			6, 6, 9, 5, 9, 0, 5, 4, 4,	6, 6, 9, 5, 9, 0, 5, 4, 4,
			5, 8, 8, 9, 8, 8, 8, 9, 4,	5, 8, 8, 9, 8, 8, 8, 9, 4,
			6, 7, 7, 7, 9, 2, 5, 5, 7,	6, 7, 7, 7, 9, 2, 5, 5, 7,
			7, 9, 0, 9, 0, 4, 6, 4, 6,	7, 9, 0, 9, 0, 4, 6, 4, 6,
			6, 8, 8, 8, 9, 9, 6, 6, 6,	6, 8, 8, 8, 9, 9, 6, 6, 6,
			6, 9, 9, 0, 8, 3, 8, 9, 8,	6, 9, 9, 0, 8, 3, 8, 9, 8,
			9, 9, 9, 4, 5, 9, 9, 1, 9,	9, 9, 9, 4, 5, 9, 9, 1, 9,
			0, 8, 9, 9, 9, 6, 7, 5, 5,	0, 8, 9, 9, 9, 6, 7, 5, 5,
			6, 4, 4, 2, 2, 4, 4, 6, 7,	6, 4, 4, 2, 2, 4, 4, 6, 7,
			6, 6, 7, 1, 4, 4, 7, 8, 7,	6, 6, 7, 1, 4, 4, 7, 8, 7,
			5, 4, 5, 7, 8, 8, 9, 7, 7,	5, 4, 5, 7, 8, 8, 9, 7, 7,
			9, 5, 9, 0, 0, 5, 5, 8, 9,	9, 5, 9, 0, 0, 5, 5, 8, 9,
				4, 9, 9, 9, 0, 9, 0, 8, 8,
				9, 9, 9, 9, 0, 3, 9, 9, 9,
			0, 7, 8, 8, 8, 9, 0, 8, 4,	0, 7, 8, 8, 8, 9, 0, 8, 4,
				8, 8, 9, 6, 7, 7, 7, 9, 6,
				6, 7, 7, 7, 9, 9, 0, 7, 7,
			9, 0, 9, 9, 9, 0, 9, 7, 7,	9, 0, 9, 9, 9, 0, 9, 7, 7,
				8, 6, 7, 8, 8, 3, 8, 9, 7,
				9, 0, 9, 9, 0, 9, 0, 9, 9,
			9, 9, 0, 6, 7, 8, 9, 4, 7,	9, 9, 0, 6, 7, 8, 9, 4, 7,
				7, 7, 8, 3, 7, 7, 8, 8, 9,
				0, 9, 9, 9, 0, 8, 8, 9, 8, 8, 9, 1, 7, 7, 8, 5, 5, 6,
				6, 8, 8, 3, 8, 9, 0, 7, 2,
				3, 5, 7, 9, 9, 0, 9, 0, 8,
				9, 8, 4, 5, 5, 5, 8, 8, 9,
				4, 7, 8, 7, 7, 4, 7, 7, 8,
				4, 8, 4, 8, 4, 8, 9, 9, 9,
				0, 6, 7, 9, 9, 9, 0, 6, 7,
				5, 3, 5, 6, 6, 7, 2, 6, 7,
				7, 9, 6, 5, 6, 6, 7, 9, 9,
			0, 8, 8, 5, 8, 2, 3, 3, 8,	0, 8, 8, 5, 8, 2, 3, 3, 8,
			8, 9, 9, 9, 9, 0, 5, 3, 5,	8, 9, 9, 9, 9, 0, 5, 3, 5,
			8, 8, 9, 1, 7, 9, 9, 1, 9,	8, 8, 9, 1, 7, 9, 9, 1, 9,
			0, 9, 0, 7, 9, 7, 9, 6, 7,	0, 9, 0, 7, 9, 7, 9, 6, 7,
			7, 9, 9, 0, 2, 3, 6, 3, 3,	7, 9, 9, 0, 2, 3, 6, 3, 3,
			3, 6, 6, 7, 7, 8, 7, 8, 8,	3, 6, 6, 7, 7, 8, 7, 8, 8,
			9, 7, 8, 8, 8, 7, 8, 5, 5,	9, 7, 8, 8, 8, 7, 8, 5, 5,
			8, 9, 2, 9, 0, 7, 8, 7, 2,	8, 9, 2, 9, 0, 7, 8, 7, 2,
			3, 3, 3, 7, 8, 9, 0, 5, 7,	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,	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,	9, 9, 8, 8, 8, 8, 9, 7, 7,
			8, 9, 3, 9, 0, 9, 0, 8, 9,	8, 9, 3, 9, 0, 9, 0, 8, 9,
			6, 9, 9, 0, 8, 7, 8, 3, 4,	6, 9, 9, 0, 8, 7, 8, 3, 4,
			4, 8, 9, 9, 9, 0, 7, 8, 8,	4, 8, 9, 9, 9, 0, 7, 8, 8,
			1, 2, 3, 3, 8, 9, 0, 9, 4,	1, 2, 3, 3, 8, 9, 0, 9, 4,
			7, 9, 5, 7, 9, 2, 7, 9, 5,	7, 9, 5, 7, 9, 2, 7, 9, 5,
			7, 9, 0, 9, 0, 7, 9, 0, 7,	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,	5, 3, 5, 5, 8, 4, 8, 8, 9,
			6, 6, 6, 9, 9, 0, 7, 9, 0,	6, 6, 6, 9, 9, 0, 7, 9, 0,
			2, 3, 3, 3, 4, 5, 8, 8, 8,	2, 3, 3, 3, 4, 5, 8, 8, 8,
			9, 8, 9, 6, 6, 6, 6, 9, 0,	9, 8, 9, 6, 6, 6, 6, 9, 0,
			9, 8, 9, 7, 7, 8, 6, 6, 8,	9, 8, 9, 7, 7, 8, 6, 6, 8,
			9, 6, 7, 6, 6, 6, 7, 8, 8,	9, 6, 7, 6, 6, 6, 7, 8, 8,
	1			

1:47 PM	Singly Linked List (CC08): Attempt rev	/iew BK-LINIS
Test	Expected	Got
	1, 6, 8, 8, 9, 7, 7, 7, 8	, 1, 6, 8, 8, 9, 7, 7, 7, 8,
	7, 6, 6, 7, 7, 6, 7, 7, 1	, 7, 6, 6, 7, 7, 6, 7, 7, 1,
	5, 6, 7, 8, 8, 4, 8, 9, 8	, 5, 6, 7, 8, 8, 4, 8, 9, 8,
	8, 9, 7, 9, 5, 9, 2, 9, 0	, 8, 9, 7, 9, 5, 9, 2, 9, 0,
	4, 7, 8, 8, 9, 6, 6, 9, 0	, 4, 7, 8, 8, 9, 6, 6, 9, 0,
	9, 7, 8, 8, 8, 9, 8, 9, 9	, 9, 7, 8, 8, 8, 9, 8, 9, 9,
	5, 9, 0, 9, 0, 9, 5, 5, 6	, 5, 9, 0, 9, 0, 9, 5, 5, 6,
	4, 6, 3, 3, 6, 8, 2, 4, 8	, 4, 6, 3, 3, 6, 8, 2, 4, 8,
	8, 9, 7, 8, 9, 5, 5, 5, 5	, 8, 9, 7, 8, 9, 5, 5, 5, 5,
	7, 8, 8, 6, 8, 9, 7, 8, 9	, 7, 8, 8, 6, 8, 9, 7, 8, 9,
	9, 0, 9, 9, 0, 1, 2, 4, 7	, 9, 0, 9, 9, 0, 1, 2, 4, 7,
	3, 3, 7, 8, 9, 5, 8, 9, 9	, 3, 3, 7, 8, 9, 5, 8, 9, 9,
	0, 6, 9, 9, 0, 9, 8, 9, 9	, 0, 6, 9, 9, 0, 9, 8, 9, 9,
	1, 4, 9, 9, 0, 9, 9, 0, 9	, 1, 4, 9, 9, 0, 9, 9, 0, 9,
	9, 0, 4, 9, 9, 0, 9, 0, 0	, 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, 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]	9, 9, 0]

	Test	Expected	Got	
~	int arr[] = {7, 0, 6, 1, 5, 4, 5, 3, 8, 7, 3, 0,	- · · · · · · · · · · · · · · · · · ·	[7, 0, 6, 1, 5, 4, 5, 3, 8,	~
	9, 4, 6, 2, 6, 2, 1, 2, 4, 6, 3, 5, 5, 0, 3, 2, 2, 7, 7, 4, 8, 5, 0, 7, 1, 4, 5, 2, 4, 9, 2, 3,	7, 3, 0, 9, 4, 6, 2, 6, 2, 1, 2, 4, 6, 3, 5, 5, 0, 3,	7, 3, 0, 9, 4, 6, 2, 6, 2, 1, 2, 4, 6, 3, 5, 5, 0, 3,	
	3, 9, 9, 1, 0, 5, 8, 3, 4, 0, 5, 0, 2, 6, 0, 3,	2, 2, 7, 7, 4, 8, 5, 0, 7,	2, 2, 7, 7, 4, 8, 5, 0, 7,	
	1, 3, 8, 2, 9, 0, 7, 1, 3, 1, 2, 6, 1, 8, 4, 6,	1, 4, 5, 2, 4, 9, 2, 3, 3,	1, 4, 5, 2, 4, 9, 2, 3, 3,	
	9, 6, 4, 9, 9, 9, 4, 0, 7, 5, 1, 4, 6, 7, 2, 5,	9, 9, 1, 0, 5, 8, 3, 4, 0,	9, 9, 1, 0, 5, 8, 3, 4, 0,	
	0, 9, 6, 6, 8, 8, 1, 9, 8, 4, 4, 2, 6, 7, 6, 2,	5, 0, 2, 6, 0, 3, 1, 3, 8,	5, 0, 2, 6, 0, 3, 1, 3, 8,	
	3, 9, 6, 1, 8, 6, 4, 8, 2, 1, 2, 8, 7, 6, 8, 5, 6, 0, 6, 1, 3, 5, 6, 3, 9, 1, 4, 4, 4, 0, 8, 3,	2, 9, 0, 7, 1, 3, 1, 2, 6, 1, 8, 4, 6, 9, 6, 4, 9, 9,	2, 9, 0, 7, 1, 3, 1, 2, 6, 1, 8, 4, 6, 9, 6, 4, 9, 9,	
	2, 5, 9, 3, 2, 4, 1, 8, 7, 4, 1, 7, 3, 7, 0, 0,	9, 4, 0, 7, 5, 1, 4, 6, 7,	9, 4, 0, 7, 5, 1, 4, 6, 7,	
	6, 5, 7, 0, 2, 5, 2, 0, 2, 6, 9, 1, 3, 7, 6, 6,	2, 5, 0, 9, 6, 6, 8, 8, 1,	2, 5, 0, 9, 6, 6, 8, 8, 1,	
	9, 2, 2, 1, 1, 7, 6, 7, 5, 4, 2, 2, 1, 6, 4, 1,	9, 8, 4, 4, 2, 6, 7, 6, 2,	9, 8, 4, 4, 2, 6, 7, 6, 2,	
	2, 0, 7, 5, 9, 9, 1, 3, 8, 9, 5, 1, 3, 4, 6, 2, 1, 8, 9, 4, 6, 4, 0, 9, 8, 7, 1, 5, 0, 7, 1, 3,	3, 9, 6, 1, 8, 6, 4, 8, 2, 1, 2, 8, 7, 6, 8, 5, 6, 0,	3, 9, 6, 1, 8, 6, 4, 8, 2, 1, 2, 8, 7, 6, 8, 5, 6, 0,	
	9, 7, 8, 3, 4, 3, 3, 9, 0, 8, 0, 1, 3, 1, 1, 4,	6, 1, 3, 5, 6, 3, 9, 1, 4,	6, 1, 3, 5, 6, 3, 9, 1, 4,	
	7, 7, 0, 1, 4, 6, 4, 1, 6, 5, 1, 3, 3, 0, 2, 6,	4, 4, 0, 8, 3, 2, 5, 9, 3,	4, 4, 0, 8, 3, 2, 5, 9, 3,	
	2, 8, 5, 7, 9, 2, 0, 9, 2, 5, 9, 3, 6, 0, 8, 1,	2, 4, 1, 8, 7, 4, 1, 7, 3,	2, 4, 1, 8, 7, 4, 1, 7, 3,	
	3, 7, 6, 8, 1, 1, 0, 8, 9, 0, 6, 8, 7, 3, 8, 1,	7, 0, 0, 6, 5, 7, 0, 2, 5,	7, 0, 0, 6, 5, 7, 0, 2, 5,	
	1, 5, 2, 2, 0, 6, 2, 5, 3, 0, 0, 5, 3, 3, 1, 0, 3, 9, 1, 0, 7, 2, 0, 7, 8, 2, 0, 5, 0, 2, 9, 9,	2, 0, 2, 6, 9, 1, 3, 7, 6, 6, 9, 2, 2, 1, 1, 7, 6, 7,	2, 0, 2, 6, 9, 1, 3, 7, 6, 6, 9, 2, 2, 1, 1, 7, 6, 7,	
	9, 7, 5, 0, 0, 2, 3, 7, 6, 2, 1, 8, 5, 6, 8, 2,	5, 4, 2, 2, 1, 6, 4, 1, 2,	5, 4, 2, 2, 1, 6, 4, 1, 2,	
	8, 1, 6, 3, 7, 9, 5, 7, 9, 0, 1, 4, 2, 3, 5, 9,	0, 7, 5, 9, 9, 1, 3, 8, 9,	0, 7, 5, 9, 9, 1, 3, 8, 9,	
	2, 4, 7, 5, 8, 2, 6, 8, 9, 1, 9, 2, 0, 7, 5, 2,	5, 1, 3, 4, 6, 2, 1, 8, 9,	5, 1, 3, 4, 6, 2, 1, 8, 9,	
	9, 6, 7, 8, 6, 0, 9, 9, 2, 8, 0, 6, 0, 9, 0, 0,	4, 6, 4, 0, 9, 8, 7, 1, 5,	4, 6, 4, 0, 9, 8, 7, 1, 5,	
	7, 0, 6, 5, 0, 6, 2, 4, 5, 1, 2, 4, 4, 1, 7, 5, 8, 1, 4, 1, 3, 5, 6, 8, 0, 5, 8, 4, 1, 8, 4, 5,	0, 7, 1, 3, 9, 7, 8, 3, 4, 3, 3, 9, 0, 8, 0, 1, 3, 1,	0, 7, 1, 3, 9, 7, 8, 3, 4, 3, 3, 9, 0, 8, 0, 1, 3, 1,	
	5, 3, 6, 0, 5, 2, 6, 6, 5, 2, 9, 2, 0, 8, 2, 9,	1, 4, 7, 7, 0, 1, 4, 6, 4,	1, 4, 7, 7, 0, 1, 4, 6, 4,	
	6, 8, 0, 1, 1, 6, 7, 6, 4, 2, 7, 4, 1, 1, 9, 5,	1, 6, 5, 1, 3, 3, 0, 2, 6,	1, 6, 5, 1, 3, 3, 0, 2, 6,	
	2, 3, 6, 1, 2, 3, 0, 9, 3, 4, 0, 1, 1, 7, 6, 9,	2, 8, 5, 7, 9, 2, 0, 9, 2,	2, 8, 5, 7, 9, 2, 0, 9, 2,	
	0, 7, 3, 3, 2, 0, 8, 6, 2, 7, 7, 4, 9, 9, 9, 5, 1, 2, 8, 6, 5, 7, 8, 0, 9, 3, 1, 0, 3, 7, 0, 0,	5, 9, 3, 6, 0, 8, 1, 3, 7, 6, 8, 1, 1, 0, 8, 9, 0, 6,	5, 9, 3, 6, 0, 8, 1, 3, 7, 6, 8, 1, 1, 0, 8, 9, 0, 6,	
	6, 0, 3, 4, 8, 7, 8, 8, 5, 6, 2, 7, 6, 1, 2, 6,	8, 7, 3, 8, 1, 1, 5, 2, 2,	8, 7, 3, 8, 1, 1, 5, 2, 2,	
	3, 8, 4, 8, 9, 1, 5, 4, 4, 3, 5, 6, 5, 5, 7, 5,	0, 6, 2, 5, 3, 0, 0, 5, 3,	0, 6, 2, 5, 3, 0, 0, 5, 3,	
	7, 7, 7, 3, 2, 0, 9, 3, 6, 2, 9, 1, 2, 8, 8, 4,	3, 1, 0, 3, 9, 1, 0, 7, 2,	3, 1, 0, 3, 9, 1, 0, 7, 2,	
	0, 3, 7, 0, 6, 8, 4, 9, 3, 0, 8, 0, 2, 8, 1, 9,	0, 7, 8, 2, 0, 5, 0, 2, 9,	0, 7, 8, 2, 0, 5, 0, 2, 9,	
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	7, 3, 3, 2, 5, 7, 3, 4, 3, 6, 3, 0, 9, 0, 1, 9,	1, 6, 3, 7, 9, 5, 7, 9, 0,	1, 6, 3, 7, 9, 5, 7, 9, 0,	
	3, 0, 9, 8, 3, 1, 9, 3, 0, 6, 0, 0, 7, 6, 0, 6,	1, 4, 2, 3, 5, 9, 2, 4, 7,	1, 4, 2, 3, 5, 9, 2, 4, 7,	
	9, 3, 6, 1, 9, 5, 1, 6, 0, 5, 3, 1, 7, 7, 6, 8,	5, 8, 2, 6, 8, 9, 1, 9, 2,	5, 8, 2, 6, 8, 9, 1, 9, 2,	
	8, 3, 4, 2, 8, 7, 5, 6, 2, 2, 5, 9, 6, 8, 5, 0, 1, 8, 3, 1, 0, 0, 5, 0, 3, 1, 9, 1, 9, 3, 7, 6,	0, 7, 5, 2, 9, 6, 7, 8, 6, 0, 9, 9, 2, 8, 0, 6, 0, 9,	0, 7, 5, 2, 9, 6, 7, 8, 6, 0, 9, 9, 2, 8, 0, 6, 0, 9,	
	5, 2, 8, 0, 7, 4, 4, 8, 3, 9, 8, 7, 7, 5, 9, 6,	0, 0, 7, 0, 6, 5, 0, 6, 2,	0, 0, 7, 0, 6, 5, 0, 6, 2,	
	9, 4, 8, 7, 8, 4, 0, 2, 9, 0, 7, 5, 1, 3, 5, 6,	4, 5, 1, 2, 4, 4, 1, 7, 5,	4, 5, 1, 2, 4, 4, 1, 7, 5,	
	8, 9, 3, 0, 5, 4, 2, 6, 9, 6, 1, 2, 0, 9, 4, 9,	8, 1, 4, 1, 3, 5, 6, 8, 0,	8, 1, 4, 1, 3, 5, 6, 8, 0,	
	5, 7, 3, 8, 8, 8, 3, 4, 8, 4, 7, 2, 6, 5, 8, 1, 0, 4, 5, 3, 8, 1, 5, 9, 2, 0, 2, 4, 3, 7, 8, 0,	5, 8, 4, 1, 8, 4, 5, 5, 3, 6, 0, 5, 2, 6, 6, 5, 2, 9,	5, 8, 4, 1, 8, 4, 5, 5, 3, 6, 0, 5, 2, 6, 6, 5, 2, 9,	
	0, 1, 8, 6, 1, 6, 3, 4, 1, 1, 6, 5, 3, 5, 2, 3,	2, 0, 8, 2, 9, 6, 8, 0, 1,	2, 0, 8, 2, 9, 6, 8, 0, 1,	
	2, 5, 4, 7, 5, 4, 1, 4, 5, 2, 9, 6, 3, 4, 1, 2,	1, 6, 7, 6, 4, 2, 7, 4, 1,	1, 6, 7, 6, 4, 2, 7, 4, 1,	
	7, 4, 5, 1, 9, 9, 1, 1, 4, 3, 8, 8, 8, 3, 0, 3,	1, 9, 5, 2, 3, 6, 1, 2, 3,	1, 9, 5, 2, 3, 6, 1, 2, 3,	
	6, 1, 9, 6, 8, 7, 4, 1, 9, 6, 6, 9, 8, 8, 5, 2,	0, 9, 3, 4, 0, 1, 1, 7, 6,	0, 9, 3, 4, 0, 1, 1, 7, 6,	
	9, 7, 9, 4, 6, 7, 0, 7, 6, 3, 9, 2, 4, 2, 8, 9, 2, 3, 2, 1, 0, 2, 4, 0, 7, 7, 4, 5, 1, 8, 9, 3,	9, 0, 7, 3, 3, 2, 0, 8, 6, 2, 7, 7, 4, 9, 9, 9, 5, 1,	9, 0, 7, 3, 3, 2, 0, 8, 6, 2, 7, 7, 4, 9, 9, 9, 5, 1,	
	8, 6, 7, 7, 3, 3, 5, 4, 8, 7, 3, 4, 7, 4, 4, 5,	2, 8, 6, 5, 7, 8, 0, 9, 3,	2, 8, 6, 5, 7, 8, 0, 9, 3,	
	1, 1, 1, 5, 0, 9, 6, 4, 5, 8, 9, 8, 7, 8, 6, 3,	1, 0, 3, 7, 0, 0, 6, 0, 3,	1, 0, 3, 7, 0, 0, 6, 0, 3,	
	4, 8, 9, 5, 9, 1, 3, 0, 1, 0, 3, 9, 6, 4, 4, 2,	4, 8, 7, 8, 8, 5, 6, 2, 7,	4, 8, 7, 8, 8, 5, 6, 2, 7,	
	4, 8, 8, 8, 6, 0, 1, 1, 0, 9, 1, 9, 5, 7, 0, 9, 5, 8, 1, 0, 9, 9, 1, 4, 5, 3, 9, 0, 6, 6, 3, 5,	6, 1, 2, 6, 3, 8, 4, 8, 9, 1, 5, 4, 4, 3, 5, 6, 5, 5,	6, 1, 2, 6, 3, 8, 4, 8, 9, 1, 5, 4, 4, 3, 5, 6, 5, 5,	
	8, 0, 3, 8, 3, 9, 4, 8, 5, 7, 6, 6, 5, 3, 7, 7,	7, 5, 7, 7, 7, 3, 2, 0, 9,	7, 5, 7, 7, 7, 3, 2, 0, 9,	
	3, 6, 2, 6, 0, 2, 9, 4, 6, 0, 7, 6, 8, 1, 0, 3,	3, 6, 2, 9, 1, 2, 8, 8, 4,	3, 6, 2, 9, 1, 2, 8, 8, 4,	
	0, 3, 9, 0, 5, 4, 3, 4, 2, 4, 5, 4, 3, 9, 4, 4,	0, 3, 7, 0, 6, 8, 4, 9, 3,	0, 3, 7, 0, 6, 8, 4, 9, 3,	
	4, 4, 4, 8, 0, 0, 7, 7, 0, 1, 7, 8, 2, 5, 1, 7, 4, 3, 3, 6, 1, 8, 0, 4, 7, 0, 6, 8, 3, 6, 1, 6,	0, 8, 0, 2, 8, 1, 9, 4, 3, 9, 0, 5, 2, 7, 9, 9, 8, 6,	0, 8, 0, 2, 8, 1, 9, 4, 3, 9, 0, 5, 2, 7, 9, 9, 8, 6,	
	4, 8, 1, 5, 3, 0, 1, 7, 7, 8, 5, 8, 8, 2, 4, 7,	9, 8, 6, 5, 2, 8, 9, 6, 9,	9, 8, 6, 5, 2, 8, 9, 6, 9,	

10.47 PW	Sirigiy L	inked List (CC06). Attempt review	BK-LIVIS
Test		Expected	Got
4, 2	, 2, 5, 2, 3, 2, 5, 5, 2, 7, 5, 7, 9, 2, 2,	7, 6, 0, 4, 2, 4, 4, 1, 6,	7, 6, 0, 4, 2, 4, 4, 1, 6,
5, 8	, 6, 9, 4, 9, 0, 3, 9, 7, 2, 7, 9, 3, 9, 0,	6, 4, 1, 7, 3, 3, 2, 5, 7,	6, 4, 1, 7, 3, 3, 2, 5, 7,
	, 6, 3, 3, 6, 8, 1, 5, 0, 9, 4, 5, 1, 0, 1,	3, 4, 3, 6, 3, 0, 9, 0, 1,	3, 4, 3, 6, 3, 0, 9, 0, 1,
	, 6, 2, 2, 5, 6, 4, 6, 3, 7, 7, 2, 9, 1, 5,	9, 3, 0, 9, 8, 3, 1, 9, 3,	9, 3, 0, 9, 8, 3, 1, 9, 3,
	, 7, 6, 0, 4, 1, 3, 0, 5, 3, 0, 5, 4, 1, 3, , 6, 9, 3, 9, 7, 7, 8, 2, 5, 5, 6, 0, 1, 8,	0, 6, 0, 0, 7, 6, 0, 6, 9, 3, 6, 1, 9, 5, 1, 6, 0, 5,	0, 6, 0, 0, 7, 6, 0, 6, 9, 3, 6, 1, 9, 5, 1, 6, 0, 5,
	, 8, 8, 3, 3, 5, 5, 2, 1, 9, 4, 1, 1, 3, 7,	3, 1, 7, 7, 6, 8, 8, 3, 4,	3, 1, 7, 7, 6, 8, 8, 3, 4,
	, 2, 8, 6, 2, 3, 3, 3, 5, 0, 3, 3, 9, 0, 7,	2, 8, 7, 5, 6, 2, 2, 5, 9,	2, 8, 7, 5, 6, 2, 2, 5, 9,
	, 3, 3, 6, 5, 4, 1, 9, 3, 5, 8, 7, 7, 5, 3,	6, 8, 5, 0, 1, 8, 3, 1, 0,	6, 8, 5, 0, 1, 8, 3, 1, 0,
9, 9	, 6, 2, 6, 7, 4, 1, 2, 0, 6, 5, 6, 0, 1, 1,	0, 5, 0, 3, 1, 9, 1, 9, 3,	0, 5, 0, 3, 1, 9, 1, 9, 3,
3, 4	, 4, 0, 1, 2, 0, 8, 5, 9, 4, 9, 4, 0, 9, 4,	7, 6, 5, 2, 8, 0, 7, 4, 4,	7, 6, 5, 2, 8, 0, 7, 4, 4,
	, 8, 0, 1, 9, 5, 4, 4, 4, 2, 9, 4, 5, 9, 9,	8, 3, 9, 8, 7, 7, 5, 9, 6,	8, 3, 9, 8, 7, 7, 5, 9, 6,
	, 6, 4, 0, 4, 1, 9, 0, 3, 0, 9, 3, 9, 2, 6,	9, 4, 8, 7, 8, 4, 0, 2, 9,	9, 4, 8, 7, 8, 4, 0, 2, 9,
	, 2, 9, 4, 6, 1, 2, 5, 5, 5, 2, 7, 4, 1, 1, , 1, 5, 0, 0, 9, 1, 2, 7, 9, 4, 7, 2, 6, 6,	0, 7, 5, 1, 3, 5, 6, 8, 9, 3, 0, 5, 4, 2, 6, 9, 6, 1,	0, 7, 5, 1, 3, 5, 6, 8, 9, 3, 0, 5, 4, 2, 6, 9, 6, 1,
	, 8, 6, 0, 3, 9, 0, 4, 4, 2, 8, 7, 5, 8, 9,	2, 0, 9, 4, 9, 5, 7, 3, 8,	2, 0, 9, 4, 9, 5, 7, 3, 8,
7, 0	, 4, 2, 8, 2, 6, 1, 9, 1, 7, 9, 2, 1, 9, 1,	8, 8, 3, 4, 8, 4, 7, 2, 6,	8, 8, 3, 4, 8, 4, 7, 2, 6,
3, 1	, 8, 0, 7, 0, 5, 7, 6, 3, 3, 1, 3, 6, 3, 6,	5, 8, 1, 0, 4, 5, 3, 8, 1,	5, 8, 1, 0, 4, 5, 3, 8, 1,
	, 1, 3, 9, 0, 4, 9, 9, 2, 5, 3, 0, 1, 6, 6,	5, 9, 2, 0, 2, 4, 3, 7, 8,	5, 9, 2, 0, 2, 4, 3, 7, 8,
	, 2,snip 0, 0, 3, 6, 3, 9, 9, 7, 5,	0, 0, 1, 8, 6, 1, 6, 3, 4,	0, 0, 1, 8, 6, 1, 6, 3, 4,
	, 7, 7, 6, 8, 1, 7, 8, 5, 2, 8, 9, 2, 6, 0, , 4 5 4 1 6 1 8 1 8 3 1 7 0 3	1, 1, 6, 5, 3, 5, 2, 3, 2,	1, 1, 6, 5, 3, 5, 2, 3, 2, 5, 4, 7, 5, 4, 1, 4, 5, 2,
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	, 2, 9, 2, 3, 7, 0, 6, 4, 3, 8, 0, 8, 0, 0,	8, 3, 0, 3, 6, 1, 9, 6, 8,	8, 3, 0, 3, 6, 1, 9, 6, 8,
7, 9	, 2, 8, 7, 2, 7, 5, 3, 7, 8, 0, 9, 0, 9, 6,	7, 4, 1, 9, 6, 6, 9, 8, 8,	7, 4, 1, 9, 6, 6, 9, 8, 8,
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	, 7, 2, 4, 8, 6, 8, 8, 6, 8, 0, 2, 6, 3, 2,	7, 6, 3, 9, 2, 4, 2, 8, 9,	7, 6, 3, 9, 2, 4, 2, 8, 9,
	, 4, 5, 7, 7, 2, 7, 2, 3, 1, 6, 1, 2, 8, 4,	2, 3, 2, 1, 0, 2, 4, 0, 7,	2, 3, 2, 1, 0, 2, 4, 0, 7,
	, 4, 7, 8, 7, 4, 3, 6, 1, 3, 8, 7, 4, 0, 2, , 4, 7, 7, 6, 6, 2, 3, 9, 5, 0, 7, 6, 0, 9,	7, 4, 5, 1, 8, 9, 3, 8, 6, 7, 7, 3, 3, 5, 4, 8, 7, 3,	7, 4, 5, 1, 8, 9, 3, 8, 6, 7, 7, 3, 3, 5, 4, 8, 7, 3,
	, 1, 6, 5, 8, 3, 9, 9, 8, 6, 1, 8, 2, 8, 2,	4, 7, 4, 4, 5, 1, 1, 1, 5,	4, 7, 4, 4, 5, 1, 1, 1, 5,
	, 6, 7, 8, 4, 5, 3, 6, 0, 1, 9, 6, 2, 4, 0,	0, 9, 6, 4, 5, 8, 9, 8, 7,	0, 9, 6, 4, 5, 8, 9, 8, 7,
9, 0	, 0, 9, 4, 9, 7, 5, 3, 1, 1, 8, 4, 4, 1, 3,	8, 6, 3, 4, 8, 9, 5, 9, 1,	8, 6, 3, 4, 8, 9, 5, 9, 1,
	, 3, 7, 0, 6, 0, 3, 8, 6, 3, 1, 3, 6, 9, 0,	3, 0, 1, 0, 3, 9, 6, 4, 4,	3, 0, 1, 0, 3, 9, 6, 4, 4,
	, 7, 5, 6, 8, 1, 6, 2, 1, 0, 2, 4, 8, 5, 6,	2, 4, 8, 8, 8, 6, 0, 1, 1,	2, 4, 8, 8, 8, 6, 0, 1, 1,
	, 1, 4, 3, 6, 4, 1, 5, 1, 5, 4, 7, 2, 4, 7, , 6, 1, 7, 2, 4, 0, 6, 1, 3, 2, 8, 7, 5, 7,	0, 9, 1, 9, 5, 7, 0, 9, 5, 8, 1, 0, 9, 9, 1, 4, 5, 3,	0, 9, 1, 9, 5, 7, 0, 9, 5, 8, 1, 0, 9, 9, 1, 4, 5, 3,
	, 7, 0, 2, 2, 9, 2, 9, 0, 3, 3, 7, 8, 2, 4,	9, 0, 6, 6, 3, 5, 8, 0, 3,	9, 0, 6, 6, 3, 5, 8, 0, 3,
	, 3, 4, 3, 5, 4, 8, 6, 9, 4, 0, 6, 9, 0, 8,	8, 3, 9, 4, 8, 5, 7, 6, 6,	8, 3, 9, 4, 8, 5, 7, 6, 6,
5, 3	, 7, 2, 8, 4, 1, 1, 6, 1, 3, 9, 1, 9, 6, 4,	5, 3, 7, 7, 3, 6, 2, 6, 0,	5, 3, 7, 7, 3, 6, 2, 6, 0,
8, 1	, 1, 7, 5, 9, 7, 9, 1, 0, 5, 7, 4, 5, 4, 6,	2, 9, 4, 6, 0, 7, 6, 8, 1,	2, 9, 4, 6, 0, 7, 6, 8, 1,
	, 3, 4, 6, 0, 6, 1, 9, 9, 9, 3, 3, 7, 3, 8,	0, 3, 0, 3, 9, 0, 5, 4, 3,	0, 3, 0, 3, 9, 0, 5, 4, 3,
	, 1, 0, 2, 6, 4, 2, 6, 6, 4, 9, 1, 6, 5, 7, , 2, 5, 5, 8, 4, 6, 0, 7, 1, 0, 7, 4, 0, 9,	4, 2, 4, 5, 4, 3, 9, 4, 4,	4, 2, 4, 5, 4, 3, 9, 4, 4,
	, 5, 2, 7, 3, 1, 4, 1, 5, 7, 6, 5, 2, 8, 8,	4, 4, 4, 8, 0, 0, 7, 7, 0, 1, 7, 8, 2, 5, 1, 7, 4, 3,	4, 4, 4, 8, 0, 0, 7, 7, 0, 1, 7, 8, 2, 5, 1, 7, 4, 3,
	, 2, 6, 9, 7, 3, 5, 9, 3, 0, 4, 1, 6, 5, 9,	3, 6, 1, 8, 0, 4, 7, 0, 6,	3, 6, 1, 8, 0, 4, 7, 0, 6,
	, 9, 9, 0, 6, 6, 0, 2, 1, 8, 5, 8, 3, 7, 4,	8, 3, 6, 1, 6, 4, 8, 1, 5,	8, 3, 6, 1, 6, 4, 8, 1, 5,
7, 7	, 1, 8, 6, 3, 3, 2, 0, 3, 7, 5, 3, 5, 6, 3,	3, 0, 1, 7, 7, 8, 5, 8, 8,	3, 0, 1, 7, 7, 8, 5, 8, 8,
	, 4, 2, 9, 5, 0, 7, 4, 6, 3, 1, 3, 5, 2, 6,	2, 4, 7, 4, 2, 2, 5, 2, 3,	2, 4, 7, 4, 2, 2, 5, 2, 3,
	, 2, 0, 7, 3, 2, 5, 6, 8, 8, 8, 1, 3, 9, 1,	2, 5, 5, 2, 7, 5, 7, 9, 2,	2, 5, 5, 2, 7, 5, 7, 9, 2,
	, 4, 3, 6, 9, 3, 0, 4, 4, 9, 7, 0, 4, 6, 9, , 3, 2, 3, 8, 0, 5, 3, 7, 1, 1, 7, 4, 5, 2,	2, 5, 8, 6, 9, 4, 9, 0, 3, 9, 7, 2, 7, 9, 3, 9, 0, 7,	2, 5, 8, 6, 9, 4, 9, 0, 3, 9, 7, 2, 7, 9, 3, 9, 0, 7,
	, 5, 9, 5, 0, 3, 0, 9, 4, 1, 4, 8, 8, 5, 6,	0, 6, 3, 3, 6, 8, 1, 5, 0,	0, 6, 3, 3, 6, 8, 1, 5, 0,
	, 4, 9, 2, 4, 7, 7, 3, 2, 9, 3, 3, 5, 2, 2,	9, 4, 5, 1, 0, 1, 3, 9, 6,	9, 4, 5, 1, 0, 1, 3, 9, 6,
	, 0, 5, 0, 2, 1, 3, 9, 2, 9, 8, 0, 3, 1, 6,	2, 2, 5, 6, 4, 6, 3, 7, 7,	2, 2, 5, 6, 4, 6, 3, 7, 7,
	, 4, 7, 1, 7, 2, 3, 6, 0, 8, 7, 0, 9, 8, 4,	2, 9, 1, 5, 0, 0, 7, 6, 0,	2, 9, 1, 5, 0, 0, 7, 6, 0,
	, 1, 7, 1, 9, 4, 8, 4, 9, 1, 1, 0, 2, 9, 3,	4, 1, 3, 0, 5, 3, 0, 5, 4,	4, 1, 3, 0, 5, 3, 0, 5, 4,
	, 7, 2, 5, 5, 6, 1, 9, 5, 0, 4, 1, 8, 4, 7,	1, 3, 1, 8, 6, 9, 3, 9, 7,	1, 3, 1, 8, 6, 9, 3, 9, 7,
	, 2, 0, 4, 9, 8, 6, 4, 8, 8, 4, 9, 5, 3, 0, , 0, 9, 2, 8, 1, 4, 7, 5, 4, 5, 5, 3, 5, 4,	7, 8, 2, 5, 5, 6, 0, 1, 8, 2, 4, 8, 8, 3, 3, 5, 5, 2,	7, 8, 2, 5, 5, 6, 0, 1, 8, 2, 4, 8, 8, 3, 3, 5, 5, 2,
	, 6, 0, 9, 9, 1, 6, 1, 9, 4, 5, 8, 8, 6, 0,	1, 9, 4, 1, 1, 3, 7, 8, 7,	1, 9, 4, 1, 1, 3, 7, 8, 7,
	, 8, 1, 5, 1, 5, 4, 9, 6, 2, 6, 4, 2, 7, 4,	2, 8, 6, 2, 3, 3, 3, 5, 0,	2, 8, 6, 2, 3, 3, 3, 5, 0,
9, 3	, 7, 8, 2, 8, 5, 1, 3, 0, 7, 1, 0, 1, 8, 0,	3, 3, 9, 0, 7, 1, 9, 3, 3,	3, 3, 9, 0, 7, 1, 9, 3, 3,

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

, '	0.77 1 1	VI Olligiy L	inica List (0000). Attempt review	DIV-LIVIO
		Test	Expected	Got
			8, 9, 7, 7, 8, 8, 9, 6, 6,	8, 9, 7, 7, 8, 8, 9, 6, 6,
				6, 9, 3, 9, 0, 9, 0, 8, 8,
				9, 7, 7, 9, 9, 0, 9, 0, 5,
			5, 7, 9, 5, 6, 6, 9, 6, 3,	5, 7, 9, 5, 6, 6, 9, 6, 3,
				4, 6, 9, 6, 9, 9, 0, 0, 0,
				7, 7, 8, 8, 9, 0, 9, 2, 2,
				6, 9, 6, 6, 9, 9, 9, 0, 6,
				7, 7, 8, 9, 8, 5, 8, 8, 9,
				6, 7, 7, 9, 7, 7, 9, 9, 9,
				0, 8, 9, 7, 7, 8, 4, 4, 5,
				5, 7, 8, 8, 8, 8, 9, 9, 4,
				6, 6, 9, 0, 9, 5, 9, 0, 4,
				4, 6, 6, 9, 9, 0, 9, 9, 0,
				0, 6, 8, 8, 2, 8, 8, 9, 8,
			9, 7, 8, 7, 8, 8, 8, 9, 7,	9, 7, 8, 7, 8, 8, 8, 9, 7,
			7, 7, 3, 3, 7, 9, 6, 5, 6,	7, 7, 3, 3, 7, 9, 6, 5, 6,
			9, 6, 9, 4, 9, 9, 0, 7, 7,	9, 6, 9, 4, 9, 9, 0, 7, 7,
			8, 6, 8, 5, 3, 5, 6, 6, 8,	8, 6, 8, 5, 3, 5, 6, 6, 8,
			9, 2, 7, 7, 8, 5, 5, 6, 8,	9, 2, 7, 7, 8, 5, 5, 6, 8,
			9, 9, 9, 3, 9, 0, 8, 9, 6,	9, 9, 9, 3, 9, 0, 8, 9, 6,
			6, 6, 9, 0, 4, 4, 9, 9, 0,	6, 6, 9, 0, 4, 4, 9, 9, 0,
			9, 4, 6, 9, 0, 9, 0, 8, 3,	9, 4, 6, 9, 0, 9, 0, 8, 3,
			8, 9, 5, 7, 7, 9, 7, 7, 9,	8, 9, 5, 7, 7, 9, 7, 7, 9,
			5, 6, 6, 6, 9, 9, 0, 9, 3,	5, 6, 6, 6, 9, 9, 0, 9, 3,
			9, 9, 0, 8, 4, 8, 9, 9, 6,	9, 9, 0, 8, 4, 8, 9, 9, 6,
			9, 0, 9, 9, 0, 4, 7, 9, 9,	9, 0, 9, 9, 0, 4, 7, 9, 9,
			9, 9, 0, 5, 5, 7, 7, 7, 9,	9, 9, 0, 5, 5, 7, 7, 7, 9,
			0, 5, 9, 2, 3, 3, 9, 0, 9,	0, 5, 9, 2, 3, 3, 9, 0, 9,
				0, 9, 3, 6, 6, 7, 4, 7, 7,
				8, 7, 8, 3, 6, 8, 8, 9, 9,
				9, 0, 9, 6, 6, 7, 7, 9, 9,
				0, 8, 9, 9, 0, 2, 2, 2, 9,
				0, 6, 7, 7, 9, 5, 6, 6, 9,
				9, 0, 8, 4, 8, 8, 9, 7, 8,
				8, 9, 4, 4, 9, 0, 9, 8, 8,
				9, 9, 9, 0, 9, 5, 5, 9, 9,
				9, 0, 8, 9, 4, 7, 9, 7, 5,
				7, 7, 5, 7, 7, 9, 6, 9, 9,
			0, 0, 6, 9, 9, 0, 5, 8, 9,	0, 0, 6, 9, 9, 0, 5, 8, 9,
			9, 7, 7, 8, 8, 9, 5, 9, 5,	9, 7, 7, 8, 8, 9, 5, 9, 5,
				9, 9, 0, 7, 6, 7, 7, 7, 9,
			9, 9, 0, 7, 6, 7, 7, 7, 9, 9, 0, 7, 8, 9, 8, 9, 7, 3,	9, 0, 7, 8, 9, 8, 9, 7, 3,
				7, 7, 8, 8, 1, 8, 9, 2, 2,
			9, 2, 9, 0, 0, 4, 5, 6, 6,	9, 2, 9, 0, 0, 4, 5, 6, 6,
				6, 6, 8, 6, 8, 4, 8, 8, 2,
			3, 8, 9, 9, 8, 9, 3, 6, 3,	3, 8, 9, 9, 8, 9, 3, 6, 3,
			6, 9, 0, 7, 5, 2, 5, 2, 2,	6, 9, 0, 7, 5, 2, 5, 2, 2, 5, 7, 7, 9, 3, 9, 0, 4, 5,
				8, 8, 9, 9, 0, 4, 7, 7, 9,
			6, 9, 9, 6, 9, 6, 6, 9, 9,	6, 9, 9, 6, 9, 6, 6, 9, 9,
			0, 9, 0, 9, 5, 6, 6, 6, 7,	0, 9, 0, 9, 5, 6, 6, 6, 7,
				7, 8, 7, 8, 9, 6, 7, 4, 2,
			4, 6, 7, 7, 7, 8, 4, 4, 7,	4, 6, 7, 7, 7, 8, 4, 4, 7,
			8, 6, 7, 8, 6, 8, 9, 6, 8,	8, 6, 7, 8, 6, 8, 9, 6, 8,
			6, 8, 9, 9, 0, 9, 0, 6, 8,	6, 8, 9, 9, 0, 9, 0, 6, 8,
			3, 8, 9, 8, 8, 9, 8, 8, 9,	3, 8, 9, 8, 8, 9, 8, 8, 9,
			8, 9, 9, 8, 8, 8, 8, 8, 9,	8, 9, 9, 8, 8, 8, 8, 8, 9,
			5, 7, 9, 9, 7, 9, 6, 7, 4,	5, 7, 9, 9, 7, 9, 6, 7, 4,
			5, 5, 6, 6, 6, 6, 7, 9, 9,	5, 5, 6, 6, 6, 6, 7, 9, 9,
			0, 8, 8, 8, 9, 8, 9, 8,	0, 8, 8, 8, 8, 9, 8, 9, 8,
				4, 7, 8, 5, 5, 6, 3, 5, 5,
			6, 8, 9, 8, 8, 8, 8, 8, 8,	6, 8, 9, 8, 8, 8, 8, 8, 8,
			8, 8, 8, 9, 9, 5, 8, 5, 8,	8, 8, 8, 9, 9, 5, 8, 5, 8,
			9, 9, 6, 9, 9, 0, 4, 6, 9,	9, 9, 6, 9, 9, 0, 4, 6, 9,
				, and the second

47 PM	Singly Linked List (CC08): Attempt revie	Inked List (CC08): Attempt review BK-LMS		
Test	Expected	Got		
	1, 6, 9, 0, 8, 6, 8, 6, 8,	1, 6, 9, 0, 8, 6, 8, 6, 8,		
	8, 9, 9, 4, 9, 9, 0, 8, 9,	8, 9, 9, 4, 9, 9, 0, 8, 9,		
	7, 7, 9, 7, 7, 9, 5, 9, 4,	7, 7, 9, 7, 7, 9, 5, 9, 4,		
	5, 9, 0, 8, 8, 9, 0, 9, 9,	5, 9, 0, 8, 8, 9, 0, 9, 9,		
	0, 7, 9, 0, 6, 8, 9, 8, 9,	0, 7, 9, 0, 6, 8, 9, 8, 9,		
	8, 6, 8, 8, 8, 8, 8, 9, 7,	8, 6, 8, 8, 8, 8, 8, 9, 7,		
	8, 8, 8, 8, 9, 7, 7, 9, 7,	8, 8, 8, 8, 9, 7, 7, 9, 7,		
	9, 7, 7, 7, 9, 0, 9, 4, 9,	9, 7, 7, 7, 9, 0, 9, 4, 9,		
	0, 5, 7, 9, 9, 9, 0, 6, 9,	0, 5, 7, 9, 9, 9, 0, 6, 9,		
	9, 0, 0, 0, 5, 5, 5, 9, 9,	9, 0, 0, 0, 5, 5, 5, 9, 9,		
	0, 9, 9, 9, 0, 6, 7, 3, 5,	0, 9, 9, 9, 0, 6, 7, 3, 5,		
	5, 7, 5, 7, 8, 6, 8, 9, 0,	5, 7, 5, 7, 8, 6, 8, 9, 0,		
	6, 9, 9, 9, 9, 0, 8, 3, 3,	6, 9, 9, 9, 0, 8, 3, 3,		
	8, 9, 9, 0, 9, 8, 9, 0, 6,	8, 9, 9, 0, 9, 8, 9, 0, 6,		
	9, 9, 9, 0, 9, 0, 9, 4, 8,	9, 9, 9, 0, 9, 0, 9, 4, 8,		
	8, 9, 5, 6, 6, 7, 7, 7, 9,	8, 9, 5, 6, 6, 7, 7, 7, 9,		
	9, 0, 9, 9, 0, 5, 6, 6, 7,	9, 0, 9, 9, 0, 5, 6, 6, 7,		
	8, 9, 7, 8, 8, 8, 9, 9, 7,	8, 9, 7, 8, 8, 8, 9, 9, 7,		
	7, 7, 9, 5, 4, 4, 4, 5, 5,	7, 7, 9, 5, 4, 4, 4, 5, 5,		
	6, 5, 6, 6, 6, 6, 9, 4, 4,	6, 5, 6, 6, 6, 9, 4, 4,		
	5, 9, 4, 9, 9, 9, 0, 7, 6,	5, 9, 4, 9, 9, 9, 0, 7, 6,		
	7, 6, 7, 7, 9, 6, 7, 6, 6,	7, 6, 7, 7, 9, 6, 7, 6, 6,		
	6, 7, 3, 6, 6, 7, 9, 7, 7,	6, 7, 3, 6, 6, 7, 9, 7, 7,		
	7, 7, 9, 9, 0, 9, 9, 3, 9,	7, 7, 9, 9, 0, 9, 9, 3, 9,		
	9, 9, 0, 9, 0, 7, 9, 9, 6,	9, 9, 0, 9, 0, 7, 9, 9, 6,		
	9, 5, 9, 9, 9, 0, 8, 9, 9,	9, 5, 9, 9, 0, 8, 9, 9,		
	4, 7, 4, 7, 7, 2, 7, 9, 7,	4, 7, 4, 7, 7, 2, 7, 9, 7,		
	7, 9, 0, 8, 9, 9, 6, 6, 9,	7, 9, 0, 8, 9, 9, 6, 6, 9,		
	0, 6, 6, 6, 8, 9, 9, 8, 9,	0, 6, 6, 6, 8, 9, 9, 8, 9,		
	9, 9, 0, 9, 5, 5, 9, 0, 9,	9, 9, 0, 9, 5, 5, 9, 0, 9,		
	7, 9, 6, 6, 6, 7, 7, 9, 0,	7, 9, 6, 6, 6, 7, 7, 9, 0,		
	8, 6, 6, 8, 8, 9, 3, 9, 3,	8, 6, 6, 8, 8, 9, 3, 9, 3,		
	9, 0, 8, 9, 0, 5, 7, 9, 5,	9, 0, 8, 9, 0, 5, 7, 9, 5,		
	6, 9, 0, 9, 9, 0, 8, 8, 9,	6, 9, 0, 9, 9, 0, 8, 8, 9,		
	9, 8, 8, 8, 9, 0, 8, 5, 8,	9, 8, 8, 8, 9, 0, 8, 5, 8,		
	9, 7, 8, 6, 7, 8, 8, 4, 4,	9, 7, 8, 6, 7, 8, 8, 4, 4,		
	8, 8, 3, 8, 9, 5, 8, 3, 5,	8, 8, 3, 8, 9, 5, 8, 3, 5,		
	3, 5, 8, 9, 9, 9, 0, 9, 0,	3, 5, 8, 9, 9, 9, 0, 9, 0,		
	9, 5, 9, 9, 0, 0, 6, 6, 1,	9, 5, 9, 9, 0, 0, 6, 6, 1,		
	1, 6, 0, 3, 4, 4, 4, 6,	1, 6, 0, 3, 4, 4, 4, 4, 6,		
	6, 0, 0]	6, 0, 0]		

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

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

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

```
Question 12
Correct
Mark 1.00 out of 1.00
```

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

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

Given a singly linked list head node.

Your task is to implement a function with following prototype:

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

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

Note:

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

For example:

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

Answer: (penalty regime: 0 %)

Reset answer

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

	Test	Expected	Got	
~	<pre>int arr[] = {13, 88, 60, 7, 192}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = reverseLinkedList(head); LLNode::printList(newhead); newhead->clear();</pre>	[13, 88, 60, 7, 192] [192, 7, 60, 88, 13]	[13, 88, 60, 7, 192] [192, 7, 60, 88, 13]	~
~	<pre>int arr[] = {}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = reverseLinkedList(head); LLNode::printList(newhead); newhead->clear();</pre>	[]	[]	~
~	<pre>int arr[] = {31, 22, 46, 152, 14, 87, 196, 97, 5, 93}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = reverseLinkedList(head); LLNode::printList(newhead); newhead->clear();</pre>	[31, 22, 46, 152, 14, 87, 196, 97, 5, 93] [93, 5, 97, 196, 87, 14, 152, 46, 22, 31]	[31, 22, 46, 152, 14, 87, 196, 97, 5, 93] [93, 5, 97, 196, 87, 14, 152, 46, 22, 31]	~
~	<pre>int arr[] = {115, 59, 178, 39, 109, 18, 154, 106, 94, 174, 51, 33, 132, 195, 161, 37, 61, 107, 120, 190}; LLNode* head = LLNode::createWithIterators(arr, arr + sizeof(arr) / sizeof(int)); LLNode::printList(head); cout << "\n"; LLNode* newhead = reverseLinkedList(head); LLNode::printList(newhead); newhead->clear();</pre>	[115, 59, 178, 39, 109, 18, 154, 106, 94, 174, 51, 33, 132, 195, 161, 37, 61, 107, 120, 190] [190, 120, 107, 61, 37, 161, 195, 132, 33, 51, 174, 94, 106, 154, 18, 109, 39, 178, 59, 115]	[115, 59, 178, 39, 109, 18, 154, 106, 94, 174, 51, 33, 132, 195, 161, 37, 61, 107, 120, 190] [190, 120, 107, 61, 37, 161, 195, 132, 33, 51, 174, 94, 106, 154, 18, 109, 39, 178, 59, 115]	~

	3,7	` , ,	•	
	Test	Expected	Got	
~	int arr[] = {104, 50, 154, 40, 15, 171, 56, 114,	[104, 50, 154, 40, 15, 171,	[104, 50, 154, 40, 15, 171,	~
	67, 90, 46, 179, 152, 177, 139, 45, 18, 55, 38,	56, 114, 67, 90, 46, 179,	56, 114, 67, 90, 46, 179,	
	158, 8, 157, 143, 37, 16, 83, 173, 82, 156, 51,	152, 177, 139, 45, 18, 55,	152, 177, 139, 45, 18, 55,	
	124, 25, 68, 51, 194, 105, 44, 17, 97, 0, 150,	38, 158, 8, 157, 143, 37,	38, 158, 8, 157, 143, 37,	
	66, 71, 81, 11, 180, 148, 160, 127, 93, 108, 13,	16, 83, 173, 82, 156, 51,	16, 83, 173, 82, 156, 51,	
	122, 172, 39, 88, 62, 38, 61, 156, 45, 131, 69,	124, 25, 68, 51, 194, 105,	124, 25, 68, 51, 194, 105,	
	191, 123, 42, 103, 56, 69, 138, 185, 162, 192,	44, 17, 97, 0, 150, 66, 71,	44, 17, 97, 0, 150, 66, 71,	
	147, 71, 80, 12, 36, 191, 121, 194, 86, 92, 183,	81, 11, 180, 148, 160, 127,	81, 11, 180, 148, 160, 127,	
	164, 97, 185, 130, 29, 174, 112, 194, 185, 132,	93, 108, 13, 122, 172, 39,	93, 108, 13, 122, 172, 39,	
	27, 197, 158, 151, 51, 174};	88, 62, 38, 61, 156, 45,	88, 62, 38, 61, 156, 45,	
	LLNode* head = LLNode::createWithIterators(arr,	131, 69, 191, 123, 42, 103,	131, 69, 191, 123, 42, 103,	
	<pre>arr + sizeof(arr) / sizeof(int));</pre>	56, 69, 138, 185, 162, 192,	56, 69, 138, 185, 162, 192,	
	LLNode::printList(head);	147, 71, 80, 12, 36, 191,	147, 71, 80, 12, 36, 191,	
	cout << "\n";	121, 194, 86, 92, 183, 164,	121, 194, 86, 92, 183, 164,	
	<pre>LLNode* newhead = reverseLinkedList(head);</pre>	97, 185, 130, 29, 174, 112,	97, 185, 130, 29, 174, 112,	
	LLNode::printList(newhead);	194, 185, 132, 27, 197,	194, 185, 132, 27, 197,	
	<pre>newhead->clear();</pre>	158, 151, 51, 174]	158, 151, 51, 174]	
		[174, 51, 151, 158, 197,	[174, 51, 151, 158, 197,	
		27, 132, 185, 194, 112,	27, 132, 185, 194, 112,	
		174, 29, 130, 185, 97, 164,	174, 29, 130, 185, 97, 164,	
		183, 92, 86, 194, 121, 191,	183, 92, 86, 194, 121, 191,	
		36, 12, 80, 71, 147, 192,	36, 12, 80, 71, 147, 192,	
		162, 185, 138, 69, 56, 103,	162, 185, 138, 69, 56, 103,	
		42, 123, 191, 69, 131, 45,	42, 123, 191, 69, 131, 45,	
		156, 61, 38, 62, 88, 39,	156, 61, 38, 62, 88, 39,	
		172, 122, 13, 108, 93, 127,	172, 122, 13, 108, 93, 127,	
		160, 148, 180, 11, 81, 71,	160, 148, 180, 11, 81, 71,	
		66, 150, 0, 97, 17, 44,	66, 150, 0, 97, 17, 44,	
		105, 194, 51, 68, 25, 124,	105, 194, 51, 68, 25, 124,	
		51, 156, 82, 173, 83, 16,	51, 156, 82, 173, 83, 16,	
		37, 143, 157, 8, 158, 38,	37, 143, 157, 8, 158, 38,	
		55, 18, 45, 139, 177, 152,	55, 18, 45, 139, 177, 152,	
		179, 46, 90, 67, 114, 56,	179, 46, 90, 67, 114, 56,	
		171, 15, 40, 154, 50, 104]	171, 15, 40, 154, 50, 104]	

Expected int arr[] = {106, 14, 71, 71, 166, 172, 128, 128, [106, 14, 71, 71, 166, 172, 52, 113, 58, 184, 70, 73, 37, 83, 71, 46, 133, 128, 128, 52, 113, 58, 184, 100, 37, 186, 199, 69, 79, 71, 70, 13, 155, 90, 70, 73, 37, 83, 71, 46, 133, 100, 37, 186, 199, 69, 60, 82, 180, 125, 108, 160, 74, 93, 72, 152, 106, 79, 71, 70, 13, 155, 90, 11, 174, 164, 168, 6, 9, 41, 58, 65, 141, 22, 103, 49, 114, 197, 175, 131, 109, 135, 124, 19, 60, 82, 180, 125, 108, 160, 76, 109, 130, 15, 120, 12, 11, 77, 88, 56, 127, 74, 93, 72, 152, 106, 11, 162, 67, 133, 162, 22, 94, 122, 53, 132, 167, 174, 164, 168, 6, 9, 41, 111, 138, 61, 169, 64, 98, 159, 58, 147, 137, 50, 58, 65, 141, 22, 103, 49, 193, 190, 173, 28, 35, 108, 138, 110, 184, 82, 114, 197, 175, 131, 109, 114, 199, 137, 156, 155, 167, 165, 134, 193, 22, 135, 124, 19, 76, 109, 130, 173, 176, 46, 61, 196, 137, 151, 69, 67, 87, 161, 15, 120, 12, 11, 77, 88, 72, 60, 70, 67, 109, 149, 16, 38, 127, 15, 12, 56, 127, 162, 67, 133, 162, 107, 48, 184, 185, 43, 178, 14, 188, 61, 79, 189, 22, 94, 122, 53, 132, 167, 144, 27, 41, 114, 182, 118, 76, 89, 126, 124, 111, 138, 61, 169, 64, 98, 195, 180, 133, 118, 96, 61, 95, 127, 40, 62, 102, 159, 58, 147, 137, 50, 193, 190, 173, 28, 35, 108, 138, 130, 174, 47, 131, 187, 103, 88, 109, 153, 110, 184, 72, 178, 41, 93, 112, 24, 156, 180, 150, 110, 184, 82, 114, 199, 114, 172, 43, 170, 46, 166, 109, 193, 13, 17, 137, 156, 155, 167, 165, 190, 153, 80, 106, 199, 163, 106, 39, 85, 56, 134, 193, 22, 173, 176, 46, 61, 196, 137, 151, 69, 67, 174, 189, 61, 72, 154, 149, 59, 110, 139, 189, 99, 40, 84, 180, 23, 13, 9, 192, 163, 88, 1, 3, 87, 161, 72, 60, 70, 67, 149, 132, 36, 34, 120, 40, 48, 32, 91, 166, 42, 109, 149, 16, 38, 127, 15, 155, 30, 111, 140, 6, 189, 169, 50, 15, 144, 67, 12, 107, 48, 184, 185, 43, 145, 169, 49, 135, 49, 76, 0, 105, 90, 60, 75, 178, 14, 188, 61, 79, 189, 88, 150, 88, 122, 11, 158, 12, 43, 182, 152, 112, 144, 27, 41, 114, 182, 118, 65, 149, 14, 194, 146, 120, 114, 178, 177, 159, 76, 89, 126, 124, 195, 180, 105, 45, 169, 152, 150, 60, 99, 39, 73, 101, 162, 133, 118, 96, 61, 95, 127, 173, 127, 122, 157, 116, 139, 57, 101, 121, 45, 40, 62, 102, 130, 174, 47, 133, 151, 171, 186, 186, 116, 4, 173, 118, 103, 131, 187, 103, 88, 109, 70, 133, 158, 119, 47, 142, 111, 110, 96, 68, 153, 110, 184, 72, 178, 41, 93, 112, 24, 156, 180, 150, 118, 153, 178, 174, 130, 176, 186, 23, 193, 40, 175, 107, 184, 168, 185, 56, 167, 169, 68, 42, 114, 172, 43, 170, 46, 166, 75, 26, 174, 92, 46, 18, 85, 131, 164, 15, 116, 109, 193, 13, 17, 190, 153, 197, 88, 143, 8, 115, 199, 173, 142, 139, 162, 80, 106, 199, 163, 106, 39, 62, 7, 33, 2, 4, 54, 22, 135, 194, 34, 17, 90, 85, 56, 174, 189, 61, 72, 154, 71, 6, 156, 76, 66, 172, 157, 39, 92, 68, 154, 149, 59, 110, 139, 169, 117, 166, 86, 153, 106, 63, 142, 190, 149, 189, 99, 40, 84, 180, 23, 58, 31, 19, 114, 35, 110, 108, 103, 27, 139, 97, 13, 9, 192, 163, 88, 1, 3, 166, 186, 164, 55, 19, 133, 194, 153, 38, 8, 87, 149, 132, 36, 34, 120, 40, 35, 179, 5, 32, 143, 104, 86, 184, 116, 70, 39, 48, 32, 91, 166, 42, 155, 22, 172, 28, 40, 72, 116, 192, 17, 159, 169, 143, 30, 111, 140, 6, 189, 169, 167, 77, 25, 128, 102, 140, 120, 140, 71, 56, 76, 50, 15, 144, 67, 145, 169, 16, 13, 144, 91, 166, 2, 74, 164, 153, 71, 37, 49, 135, 49, 76, 0, 105, 187, 104, 172, 122, 9, 109, 116, 173, 75, 70, 90, 60, 75, 88, 150, 88, 117, 57, 129, 171, 198, 194, 154, 177, 82, 103, 122, 11, 158, 12, 43, 182, 30, 174, 85, 191, 116, 30, 164, 155, 38, 38, 49, 152, 112, 65, 149, 14, 194, 146, 120, 114, 178, 177, 84, 34, 111, 159}; LLNode* head = LLNode::createWithIterators(arr, 159, 105, 45, 169, 152, arr + sizeof(arr) / sizeof(int)); 150, 60, 99, 39, 73, 101, LLNode::printList(head); 162, 173, 127, 122, 157, cout << "\n"; 116, 139, 57, 101, 121, 45, LLNode* newhead = reverseLinkedList(head); 133, 151, 171, 186, 186, LLNode::printList(newhead); 116, 4, 173, 118, 103, 70, newhead->clear(); 133, 158, 119, 47, 142, 111, 110, 96, 68, 118, 153, 178, 174, 130, 176, 186, 23, 193, 40, 175, 107, 184, 168, 185, 56, 167, 169, 68, 42, 75, 26, 174, 92, 46, 18, 85, 131, 164, 15, 116, 197, 88, 143, 8, 115, 199,

173, 142, 139, 162, 62, 7,

33, 2, 4, 54, 22, 135, 194,

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

Test	Expected	Got	
	34, 17, 90, 154, 71, 6, 156, 76, 66, 172, 157, 39, 92, 68, 169, 117, 166, 86,	34, 17, 90, 154, 71, 6, 156, 76, 66, 172, 157, 39, 92, 68, 169, 117, 166, 86,	
	153, 106, 63, 142, 190,	153, 106, 63, 142, 190,	
	149, 58, 31, 19, 114, 35, 110, 108, 103, 27, 139, 97, 166, 186, 164, 55, 19, 133,	149, 58, 31, 19, 114, 35, 110, 108, 103, 27, 139, 97, 166, 186, 164, 55, 19, 133,	
	194, 153, 38, 8, 87, 35, 179, 5, 32, 143, 104, 86,	194, 153, 38, 8, 87, 35, 179, 5, 32, 143, 104, 86,	
	184, 116, 70, 39, 22, 172, 28, 40, 72, 116, 192, 17,	184, 116, 70, 39, 22, 172, 28, 40, 72, 116, 192, 17,	
	159, 169, 143, 167, 77, 25, 128, 102, 140, 120, 140,	159, 169, 143, 167, 77, 25, 128, 102, 140, 120, 140,	
	71, 56, 76, 16, 13, 144, 91, 166, 2, 74, 164, 153,	71, 56, 76, 16, 13, 144, 91, 166, 2, 74, 164, 153,	
	71, 37, 187, 104, 172, 122, 9, 109, 116, 173, 75, 70,	71, 37, 187, 104, 172, 122, 9, 109, 116, 173, 75, 70,	
	117, 57, 129, 171, 198, 194, 154, 177, 82, 103, 30,	117, 57, 129, 171, 198, 194, 154, 177, 82, 103, 30,	
	174, 85, 191, 116, 30, 164, 155, 38, 38, 49, 84, 34, 111, 159]	174, 85, 191, 116, 30, 164, 155, 38, 38, 49, 84, 34, 111, 159]	
	[159, 111, 34, 84, 49, 38, 38, 155, 164, 30, 116, 191,	[159, 111, 34, 84, 49, 38, 38, 155, 164, 30, 116, 191,	
	85, 174, 30, 103, 82, 177, 154, 194, 198, 171, 129,	85, 174, 30, 103, 82, 177, 154, 194, 198, 171, 129,	
	57, 117, 70, 75, 173, 116, 109, 9, 122, 172, 104, 187,	57, 117, 70, 75, 173, 116, 109, 9, 122, 172, 104, 187,	
	37, 71, 153, 164, 74, 2, 166, 91, 144, 13, 16, 76,	37, 71, 153, 164, 74, 2, 166, 91, 144, 13, 16, 76,	
	56, 71, 140, 120, 140, 102, 128, 25, 77, 167, 143, 169,	56, 71, 140, 120, 140, 102, 128, 25, 77, 167, 143, 169,	
	159, 17, 192, 116, 72, 40, 28, 172, 22, 39, 70, 116,	159, 17, 192, 116, 72, 40, 28, 172, 22, 39, 70, 116,	
	184, 86, 104, 143, 32, 5, 179, 35, 87, 8, 38, 153,	184, 86, 104, 143, 32, 5, 179, 35, 87, 8, 38, 153,	
	194, 133, 19, 55, 164, 186, 166, 97, 139, 27, 103, 108,	194, 133, 19, 55, 164, 186, 166, 97, 139, 27, 103, 108,	
	110, 35, 114, 19, 31, 58,	110, 35, 114, 19, 31, 58,	
	149, 190, 142, 63, 106, 153, 86, 166, 117, 169, 68, 92, 39, 157, 172, 66, 76,	149, 190, 142, 63, 106, 153, 86, 166, 117, 169, 68, 92, 39, 157, 172, 66, 76,	
	156, 6, 71, 154, 90, 17, 34, 194, 135, 22, 54, 4, 2,	156, 6, 71, 154, 90, 17, 34, 194, 135, 22, 54, 4, 2,	
	33, 7, 62, 162, 139, 142, 173, 199, 115, 8, 143, 88,	33, 7, 62, 162, 139, 142, 173, 199, 115, 8, 143, 88,	
	197, 116, 15, 164, 131, 85, 18, 46, 92, 174, 26, 75,	197, 116, 15, 164, 131, 85, 18, 46, 92, 174, 26, 75,	
	42, 68, 169, 167, 56, 185, 168, 184, 107, 175, 40,	42, 68, 169, 167, 56, 185, 168, 184, 107, 175, 40,	
	193, 23, 186, 176, 130, 174, 178, 153, 118, 68, 96,	193, 23, 186, 176, 130, 174, 178, 153, 118, 68, 96,	
	110, 111, 142, 47, 119, 158, 133, 70, 103, 118,	110, 111, 142, 47, 119, 158, 133, 70, 103, 118,	
	173, 4, 116, 186, 186, 171,	173, 4, 116, 186, 186, 171,	
	151, 133, 45, 121, 101, 57, 139, 116, 157, 122, 127,	151, 133, 45, 121, 101, 57, 139, 116, 157, 122, 127,	
	173, 162, 101, 73, 39, 99, 60, 150, 152, 169, 45, 105,	173, 162, 101, 73, 39, 99, 60, 150, 152, 169, 45, 105,	
	159, 177, 178, 114, 120, 146, 194, 14, 149, 65, 112,	159, 177, 178, 114, 120, 146, 194, 14, 149, 65, 112,	
	152, 182, 43, 12, 158, 11, 122, 88, 150, 88, 75, 60,	152, 182, 43, 12, 158, 11, 122, 88, 150, 88, 75, 60,	
	90, 105, 0, 76, 49, 135,	90, 105, 0, 76, 49, 135,	

47 PM	Singly Linked List (CC08): Attempt review	v BK-LMS
Test	Expected	Got
	49, 169, 145, 67, 144, 15,	49, 169, 145, 67, 144, 15,
	50, 169, 189, 6, 140, 111,	50, 169, 189, 6, 140, 111,
	30, 155, 42, 166, 91, 32,	30, 155, 42, 166, 91, 32,
	48, 40, 120, 34, 36, 132,	48, 40, 120, 34, 36, 132,
	149, 3, 1, 88, 163, 192, 9,	149, 3, 1, 88, 163, 192, 9,
	13, 23, 180, 84, 40, 99,	13, 23, 180, 84, 40, 99,
	189, 139, 110, 59, 149,	189, 139, 110, 59, 149,
	154, 72, 61, 189, 174, 56,	154, 72, 61, 189, 174, 56,
	85, 39, 106, 163, 199, 106,	85, 39, 106, 163, 199, 106,
	80, 153, 190, 17, 13, 193,	80, 153, 190, 17, 13, 193,
	109, 166, 46, 170, 43, 172,	109, 166, 46, 170, 43, 172,
	114, 150, 180, 156, 24,	114, 150, 180, 156, 24,
	112, 93, 41, 178, 72, 184,	112, 93, 41, 178, 72, 184,
	110, 153, 109, 88, 103,	110, 153, 109, 88, 103,
	187, 131, 47, 174, 130,	187, 131, 47, 174, 130,
	102, 62, 40, 127, 95, 61,	102, 62, 40, 127, 95, 61,
	96, 118, 133, 180, 195,	96, 118, 133, 180, 195,
	124, 126, 89, 76, 118, 182,	124, 126, 89, 76, 118, 182,
	114, 41, 27, 144, 189, 79,	114, 41, 27, 144, 189, 79,
	61, 188, 14, 178, 43, 185,	61, 188, 14, 178, 43, 185,
	184, 48, 107, 12, 15, 127,	184, 48, 107, 12, 15, 127,
	38, 16, 149, 109, 67, 70,	38, 16, 149, 109, 67, 70,
	60, 72, 161, 87, 67, 69,	60, 72, 161, 87, 67, 69,
	151, 137, 196, 61, 46, 176,	151, 137, 196, 61, 46, 176,
	173, 22, 193, 134, 165,	173, 22, 193, 134, 165,
	167, 155, 156, 137, 199,	167, 155, 156, 137, 199,
	114, 82, 184, 110, 138,	114, 82, 184, 110, 138,
	108, 35, 28, 173, 190, 193,	108, 35, 28, 173, 190, 193,
	50, 137, 147, 58, 159, 98,	50, 137, 147, 58, 159, 98,
	64, 169, 61, 138, 111, 167,	64, 169, 61, 138, 111, 167,
	132, 53, 122, 94, 22, 162,	132, 53, 122, 94, 22, 162,
	133, 67, 162, 127, 56, 88,	133, 67, 162, 127, 56, 88,
	77, 11, 12, 120, 15, 130,	77, 11, 12, 120, 15, 130,
	109, 76, 19, 124, 135, 109,	109, 76, 19, 124, 135, 109,
	131, 175, 197, 114, 49,	131, 175, 197, 114, 49,
	103, 22, 141, 65, 58, 41,	103, 22, 141, 65, 58, 41,
	9, 6, 168, 164, 174, 11,	9, 6, 168, 164, 174, 11,
	106, 152, 72, 93, 74, 160,	106, 152, 72, 93, 74, 160,
	108, 125, 180, 82, 60, 90,	108, 125, 180, 82, 60, 90,
	155, 13, 70, 71, 79, 69,	155, 13, 70, 71, 79, 69,
	199, 186, 37, 100, 133, 46,	199, 186, 37, 100, 133, 46,
	71, 83, 37, 73, 70, 184,	71, 83, 37, 73, 70, 184,
	58, 113, 52, 128, 128, 172,	58, 113, 52, 128, 128, 172,
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Expected 103, 121, 84, 35, 111, 52, 104, 43, 78, 108, 108, 6, 160, 171, 7, 180, 158, 127, 48, 98, 129, 157, 127, 7, 102, 94, 155, 37, 83, 65, 142, 82, 33, 194, 150, 31, 10, 121, 156, 113, 61, 142, 42, 22, 183, 108, 49, 146, 172, 123, 145, 131, 175, 26, 20, 153, 78, 76, 85, 3, 42, 107, 5, 78, 61, 195, 47, 47, 93, 24, 173, 186, 112, 66, 1, 28, 40, 72, 56, 198, 105, 67, 44, 75, 152, 69, 162, 100, 127, 89, 20, 1, 70, 148, 15, 172, 140, 132, 79, 193, 79, 136, 89, 80, 40, 89, 161, 158, 82, 0, 150, 104, 12, 88, 19, 113, 141, 36, 143, 127, 40, 44, 183, 17, 64, 188, 162, 171, 126, 158, 14, 54, 72, 26, 57, 129, 124, 26, 194, 84, 86, 187, 97, 183, 86, 129, 1 ...snip..., 129, 86, 183, 97, 187, 86, 84, 194, 26, 124, 129, 57, 26, 72, 54, 14, 158, 126, 171, 162, 188, 64, 17, 183, 44, 40, 127, 143, 36, 141, 113, 19, 88, 12, 104, 150, 0, 82, 158, 161, 89, 40, 80, 89, 136, 79, 193, 79, 132, 140, 172, 15, 148, 70, 1, 20, 89, 127, 100, 162, 69, 152, 75, 44, 67, 105, 198, 56, 72, 40, 28, 1, 66, 112, 186, 173, 24, 93, 47, 47, 195, 61, 78, 5, 107, 42, 3, 85, 76, 78, 153, 20, 26, 175, 131, 145, 123, 172, 146, 49, 108, 183, 22, 42, 142, 61, 113, 156, 121, 10, 31, 150, 194, 33, 82, 142, 65, 83, 37, 155, 94, 102, 7, 127, 157, 129, 98, 48, 127, 158, 180, 7, 171, 160, 6, 108, 108, 78, 43, 104, 52, 111, 35, 84, 121, 103, 56, 112, 87, 154, 120, 71, 142, 111, 4, 2, 133, 127, 32, 51, 127, 150, 84, 196, 53, 42, 146, 191, 4, 132, 145, 64, 72, 4, 145, 177, 16, 96, 63, 21, 60, 70, 36, 7, 164, 128, 104, 117, 123, 104, 189, 80, 52, 141, 129, 127, 11, 126, 115, 147, 182, 198, 74, 196, 29, 152, 186, 157, 128, 43, 185, 188, 136, 7, 40, 5, 185, 145, 61, 192, 190, 85, 64, 65, 5, 67, 109, 95, 91, 164, 153, 0, 3, 125, 40,

103, 121, 84, 35, 111, 52, 104, 43, 78, 108, 108, 6, 160, 171, 7, 180, 158, 127, 48, 98, 129, 157, 127, 7, 102, 94, 155, 37, 83, 65, 142, 82, 33, 194, 150, 31, 10, 121, 156, 113, 61, 142, 42, 22, 183, 108, 49, 146, 172, 123, 145, 131, 175, 26, 20, 153, 78, 76, 85, 3, 42, 107, 5, 78, 61, 195, 47, 47, 93, 24, 173, 186, 112, 66, 1, 28, 40, 72, 56, 198, 105, 67, 44, 75, 152, 69, 162, 100, 127, 89, 20, 1, 70, 148, 15, 172, 140, 132, 79, 193, 79, 136, 89, 80, 40, 89, 161, 158, 82, 0, 150, 104, 12, 88, 19, 113, 141, 36, 143, 127, 40, 44, 183, 17, 64, 188, 162, 171, 126, 158, 14, 54, 72, 26, 57, 129, 124, 26, 194, 84, 86, 187, 97, 183, 86, 129, 1 ...snip..., 129, 86, 183, 97, 187, 86, 84, 194, 26, 124, 129, 57, 26, 72, 54, 14, 158, 126, 171, 162, 188, 64, 17, 183, 44, 40, 127, 143, 36, 141, 113, 19, 88, 12, 104, 150, 0, 82, 158, 161, 89, 40, 80, 89, 136, 79, 193, 79, 132, 140, 172, 15, 148, 70, 1, 20, 89, 127, 100, 162, 69, 152, 75, 44, 67, 105, 198, 56, 72, 40, 28, 1, 66, 112, 186, 173, 24, 93, 47, 47, 195, 61, 78, 5, 107, 42, 3, 85, 76, 78, 153, 20, 26, 175, 131, 145, 123, 172, 146, 49, 108, 183, 22, 42, 142, 61, 113, 156, 121, 10, 31, 150, 194, 33, 82, 142, 65, 83, 37, 155, 94, 102, 7, 127, 157, 129, 98, 48, 127, 158, 180, 7, 171, 160, 6, 108, 108, 78, 43, 104, 52, 111, 35, 84, 121, 103, 56, 112, 87, 154, 120, 71, 142, 111, 4, 2, 133, 127, 32, 51, 127, 150, 84, 196, 53, 42, 146, 191, 4, 132, 145, 64, 72, 4, 145, 177, 16, 96, 63, 21, 60, 70, 36, 7, 164, 128, 104, 117, 123, 104, 189, 80, 52, 141, 129, 127, 11, 126, 115, 147, 182, 198, 74, 196, 29, 152, 186, 157, 128, 43, 185, 188, 136, 7, 40, 5, 185, 145, 61, 192, 190, 85, 64, 65, 5, 67, 109, 95, 91, 164, 153, 0, 3, 125, 40,

	Test	Expected	Got	
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		0, 172, 68, 42, 163, 190,	0, 172, 68, 42, 163, 190,	
		158, 187, 197, 170, 103,	158, 187, 197, 170, 103,	
		166, 110, 40, 67, 36, 71,	166, 110, 40, 67, 36, 71,	
		106, 168, 169, 72, 123, 95,	106, 168, 169, 72, 123, 95,	
		21, 82, 121, 57, 129, 23, 183, 60, 92, 0, 37, 38,	21, 82, 121, 57, 129, 23, 183, 60, 92, 0, 37, 38,	
		166, 46, 75, 58, 124, 67,	166, 46, 75, 58, 124, 67,	
		139, 130, 165, 99, 127, 68,	139, 130, 165, 99, 127, 68,	
		180, 14, 12, 192, 46, 184,	180, 14, 12, 192, 46, 184,	
		132, 169, 15, 11, 89, 156,	132, 169, 15, 11, 89, 156,	
		48, 76, 129, 78, 131, 4, 37, 106, 10, 9, 62, 121,	48, 76, 129, 78, 131, 4, 37, 106, 10, 9, 62, 121,	
		180, 133, 89, 139, 89, 102,	180, 133, 89, 139, 89, 102,	
		154, 94, 64, 14, 47, 101,	154, 94, 64, 14, 47, 101,	
		71, 108, 55, 164, 107, 60,	71, 108, 55, 164, 107, 60,	
		154, 137, 136, 91, 66, 54,	154, 137, 136, 91, 66, 54,	
		115, 86, 75, 30, 102, 100, 158, 100, 27, 18, 68, 59,	115, 86, 75, 30, 102, 100, 158, 100, 27, 18, 68, 59,	
		76, 143, 16, 26, 145, 24,	76, 143, 16, 26, 145, 24,	
		21, 70, 164, 149, 147, 62,	21, 70, 164, 149, 147, 62,	
		42, 83, 52, 170, 43, 132,	42, 83, 52, 170, 43, 132,	
		187, 84, 147, 77, 31, 74,	187, 84, 147, 77, 31, 74,	
		121, 152, 132, 75, 8, 42, 170, 161, 84, 62, 34, 103,	121, 152, 132, 75, 8, 42, 170, 161, 84, 62, 34, 103,	
		112, 194, 54, 188, 69, 129,	112, 194, 54, 188, 69, 129,	
		160, 39, 164, 138, 101, 28,	160, 39, 164, 138, 101, 28,	
		135, 15, 147, 183, 69, 145,	135, 15, 147, 183, 69, 145,	
		161, 111, 5, 43, 150, 117,	161, 111, 5, 43, 150, 117,	
		5, 61, 5, 158, 155, 179, 95, 190, 122, 142, 40, 78,	5, 61, 5, 158, 155, 179, 95, 190, 122, 142, 40, 78,	
		177, 121, 38, 192, 153,	177, 121, 38, 192, 153,	
		175, 199, 25, 165, 100, 59,	175, 199, 25, 165, 100, 59,	
		127, 23, 122, 138, 21, 72,	127, 23, 122, 138, 21, 72,	
		38, 6, 19, 96, 195, 124,	38, 6, 19, 96, 195, 124,	
		169, 119, 134, 175, 174, 74, 146, 125, 109, 169, 78,	169, 119, 134, 175, 174, 74, 146, 125, 109, 169, 78,	
		190, 145, 193, 116, 186,	190, 145, 193, 116, 186,	
		153, 173, 67, 34, 118, 194,	153, 173, 67, 34, 118, 194,	
		40, 41, 155, 131, 114, 20,	40, 41, 155, 131, 114, 20,	
		132, 138, 28, 55, 51, 192,	132, 138, 28, 55, 51, 192,	
		143, 50, 32, 31, 24, 61, 120, 181, 102, 151, 177,	143, 50, 32, 31, 24, 61, 120, 181, 102, 151, 177,	
		171, 144, 12, 139, 151, 45,	171, 144, 12, 139, 151, 45,	
		176, 9, 62, 164, 31, 9,	176, 9, 62, 164, 31, 9,	
		174, 197, 174, 65, 83, 145,	174, 197, 174, 65, 83, 145,	
		175, 140, 144, 79, 57, 36, 64, 55, 78, 192, 165, 179,	175, 140, 144, 79, 57, 36, 64, 55, 78, 192, 165, 179,	
		49, 193, 112, 10, 111, 88,	49, 193, 112, 10, 111, 88,	
		147, 40, 85, 19, 83, 20,	147, 40, 85, 19, 83, 20,	
		10, 153, 81, 65, 46, 18,	10, 153, 81, 65, 46, 18,	
		90, 96, 3, 43, 198, 156,	90, 96, 3, 43, 198, 156,	
		91, 41, 110, 150, 154, 181, 161, 75, 45, 120, 176, 196,	91, 41, 110, 150, 154, 181, 161, 75, 45, 120, 176, 196,	
		122, 112, 192, 45, 122, 82,	122, 112, 192, 45, 122, 82,	
		112, 105, 28, 192, 188,	112, 105, 28, 192, 188,	
		109, 76, 14, 57, 162, 36,	109, 76, 14, 57, 162, 36,	
		73, 161, 7, 176, 0, 177,	73, 161, 7, 176, 0, 177,	
		55, 144, 14, 128, 40, 90, 143, 59, 53, 102, 194, 71,	55, 144, 14, 128, 40, 90, 143, 59, 53, 102, 194, 71,	
		37, 110, 126, 111, 180,	37, 110, 126, 111, 180,	
		181, 177, 110, 136, 30,	181, 177, 110, 136, 30,	
		198, 46, 192, 16, 53, 130,	198, 46, 192, 16, 53, 130,	
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Test	Expected	Got
	17, 1, 152, 145, 145, 49,	17, 1, 152, 145, 145, 49,
	164, 148, 41, 32, 5, 161,	164, 148, 41, 32, 5, 161,
	125, 178, 94, 24, 70, 65,	125, 178, 94, 24, 70, 65,
	40, 174, 3, 3, 66, 56, 68,	40, 174, 3, 3, 66, 56, 68,
	102, 177, 26, 0, 97, 80,	102, 177, 26, 0, 97, 80,
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	76, 38, 19, 189, 48, 171,	76, 38, 19, 189, 48, 171,
	17, 60, 62, 45, 75, 18,	17, 60, 62, 45, 75, 18,
	100, 0, 70, 168, 80, 187,	100, 0, 70, 168, 80, 187,
	186, 80, 51, 112, 101, 164,	186, 80, 51, 112, 101, 164,
	79, 89, 133, 14, 188, 85,	79, 89, 133, 14, 188, 85,
	175, 120, 49, 189, 126,	175, 120, 49, 189, 126,
	182, 40, 1, 69, 2, 42, 55,	182, 40, 1, 69, 2, 42, 55,
	103, 0, 22, 5, 199, 129,	103, 0, 22, 5, 199, 129,
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	31, 34, 109, 85, 136, 40,	31, 34, 109, 85, 136, 40,
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	183, 3, 174, 119, 199, 48,	183, 3, 174, 119, 199, 48,
	0, 80, 189, 88, 198, 136,	0, 80, 189, 88, 198, 136,
	110, 80, 103, 4, 94, 72, 0,	110, 80, 103, 4, 94, 72, 0,
	115, 173, 113, 120, 100,	115, 173, 113, 120, 100,
	82, 192, 191, 68, 14, 26,	82, 192, 191, 68, 14, 26,
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	17, 21, 190, 123, 142, 81,	17, 21, 190, 123, 142, 81,
	136, 67, 110, 116, 53, 97,	136, 67, 110, 116, 53, 97,
	43, 191, 64, 183, 2, 107,	43, 191, 64, 183, 2, 107,
	128, 101, 31, 94, 62, 132,	128, 101, 31, 94, 62, 132,
	68, 71, 112, 24, 53, 110,	68, 71, 112, 24, 53, 110,
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	94, 89, 105, 11, 12, 159,	94, 89, 105, 11, 12, 159,
	102, 83, 92, 95, 192, 61,	102, 83, 92, 95, 192, 61,
	167, 153, 49, 25, 124, 27,	167, 153, 49, 25, 124, 27,
	44, 127, 129, 77, 35, 177,	44, 127, 129, 77, 35, 177,
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	51, 29, 91, 98, 159, 5,	51, 29, 91, 98, 159, 5,
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	103, 91, 51, 157, 155, 27,	103, 91, 51, 157, 155, 27,
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		15, 154, 146, 106, 7, 170,
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	39, 84, 104, 93, 179, 40,	39, 84, 104, 93, 179, 40,
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	24, 179, 27, 5, 173, 98,	24, 179, 27, 5, 173, 98,
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	117, 99, 4, 46, 163, 46, 71, 176, 10, 68, 160, 19,	117, 99, 4, 46, 163, 46, 71, 176, 10, 68, 160, 19,	
	165, 54, 177, 87, 28, 188,	165, 54, 177, 87, 28, 188,	
	167, 118, 73, 33, 88, 133, 99, 37, 163, 132, 17, 178,	167, 118, 73, 33, 88, 133, 99, 37, 163, 132, 17, 178,	
	63, 18, 48, 153, 198, 133,	63, 18, 48, 153, 198, 133,	
	160, 174, 115, 106, 68, 179, 17, 41, 184, 137, 22,	160, 174, 115, 106, 68, 179, 17, 41, 184, 137, 22,	
	123, 152, 149, 48, 142, 62, 73, 102, 137, 52, 161, 171	123, 152, 149, 48, 142, 62,	
	73, 102, 137, 52, 161, 171, 52, 147, 136, 6, 163, 10,	73, 102, 137, 52, 161, 171, 52, 147, 136, 6, 163, 10,	
	154, 196, 28, 19, 149, 186, 53, 170, 2, 165, 82, 64	154, 196, 28, 19, 149, 186, 53, 170, 2, 165, 82, 64	
	53, 170, 2, 165, 82, 64, 17, 53, 198, 135, 189, 49,	53, 170, 2, 165, 82, 64, 17, 53, 198, 135, 189, 49,	
	97, 5, 147, 60, 82, 198,	97, 5, 147, 60, 82, 198,	

Test	Expected	Got
1631	<u> </u>	
	122, 41, 85, 117, 15, 26,	122, 41, 85, 117, 15, 26,
	168, 172, 71, 15, 169, 172,	168, 172, 71, 15, 169, 172,
	73, 44, 178, 134, 35, 108,	73, 44, 178, 134, 35, 108,
	1, 51, 12, 21, 10, 48, 139,	1, 51, 12, 21, 10, 48, 139,
	139, 94, 14, 0, 153, 73,	139, 94, 14, 0, 153, 73,
	73, 0, 149, 111, 103, 125,	73, 0, 149, 111, 103, 125, 92, 24, 3, 38, 110, 77, 75,
	92, 24, 3, 38, 110, 77, 75, 131, 106, 33, 110, 109, 92,	131, 106, 33, 110, 109, 92,
	28, 49, 124, 38, 12, 132,	28, 49, 124, 38, 12, 132,
	137, 197, 190, 17, 22, 62,	137, 197, 190, 17, 22, 62,
	141, 13, 107, 48, 113, 169,	141, 13, 107, 48, 113, 169,
	92, 163, 115, 50, 56, 185,	92, 163, 115, 50, 56, 185,
	7, 63, 59, 187, 193, 155,	7, 63, 59, 187, 193, 155,
	183, 111, 67, 84, 104, 81,	183, 111, 67, 84, 104, 81,
	151, 131, 14, 15, 177, 197,	151, 131, 14, 15, 177, 197,
	190, 65, 143, 25, 156, 137,	190, 65, 143, 25, 156, 137,
	116, 98, 90, 127, 114, 88,	116, 98, 90, 127, 114, 88,
	189, 88, 23, 65, 106, 95,	189, 88, 23, 65, 106, 95,
	27, 93, 155, 4, 199, 99,	27, 93, 155, 4, 199, 99,
	151, 53, 192, 125, 2, 98,	151, 53, 192, 125, 2, 98,
	158, 155, 129, 100, 55,	158, 155, 129, 100, 55,
	119, 89, 128, 88, 60, 145,	119, 89, 128, 88, 60, 145,
	169, 85, 132, 70, 76, 167,	169, 85, 132, 70, 76, 167,
	25, 70, 199, 190, 52, 184,	25, 70, 199, 190, 52, 184,
	188, 144, 53, 147, 50, 162,	188, 144, 53, 147, 50, 162,
	130, 197, 125, 173, 147,	130, 197, 125, 173, 147,
	45, 71, 180, 173, 83, 174,	45, 71, 180, 173, 83, 174,
	68, 77, 96, 199, 115, 167,	68, 77, 96, 199, 115, 167,
	193, 156, 148, 175, 33, 98,	193, 156, 148, 175, 33, 98,
	99, 96, 62, 54, 125, 131,	99, 96, 62, 54, 125, 131,
	155, 64, 179, 66, 63, 192,	155, 64, 179, 66, 63, 192,
	7, 149, 60, 136, 78, 172,	7, 149, 60, 136, 78, 172,
	115, 10, 168, 158, 63, 28,	115, 10, 168, 158, 63, 28,
	117, 81, 24, 40, 89, 67,	117, 81, 24, 40, 89, 67,
	57, 184, 89, 160, 13, 10,	57, 184, 89, 160, 13, 10,
	15, 37, 23, 152, 147, 188,	15, 37, 23, 152, 147, 188,
	96, 99, 116, 88, 13, 121,	96, 99, 116, 88, 13, 121,
	167, 67, 24, 180, 45, 199,	167, 67, 24, 180, 45, 199,
	86, 85, 58, 98, 121, 25, 148, 172, 24, 146, 193,	86, 85, 58, 98, 121, 25, 148, 172, 24, 146, 193,
	149, 61, 72, 117, 59, 79,	149, 61, 72, 117, 59, 79,
	162, 100, 89, 88, 167, 99,	162, 100, 89, 88, 167, 99,
	14, 55, 178, 20, 116, 49,	14, 55, 178, 20, 116, 49,
	173, 27, 183, 117, 4, 99,	173, 27, 183, 117, 4, 99,
	145, 46, 46, 61, 116, 125,	145, 46, 46, 61, 116, 125,
	31, 195, 103, 30, 137, 184,	31, 195, 103, 30, 137, 184,
	36, 67, 68]	36, 67, 68]
	' ' '	

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

```
Question 13
Correct
Mark 1.00 out of 1.00
```

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

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

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

Your task is to implement a function with following prototype:

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

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

Note:

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

For example:

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

Answer: (penalty regime: 0 %)

Reset answer

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

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

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

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

Test		Expected	Got	
_	= {9, 1, 7, 5, 8, 6, 2, 2, 2, 6			~
' ' '	8, 4, 8, 4, 3, 7, 0, 7, 8, 9, 5, 5, 2, 2, 7, 8, 9, 7, 1, 9, 9, 8,		6, 0, 8, 1, 9, 6, 8, 4, 8, 4, 3, 7, 0, 7, 8, 9, 5, 3,	
	9, 1, 2, 0, 6, 8, 0, 4, 1, 6, 5,		4, 7, 4, 3, 5, 2, 2, 7, 8,	
	5, 7, 8, 8, 6, 7, 5, 8, 0, 7, 6,		9, 7, 1, 9, 9, 8, 3, 5, 7,	
5, 9, 6,	4, 1, 5, 6, 2, 2, 6, 7, 0, 3, 4,	2, 3, 1, 6, 9, 1, 2, 0, 6, 8, 0,	1, 6, 9, 1, 2, 0, 6, 8, 0,	
	6, 3, 6, 7, 5, 5, 5, 9, 0, 6, 1,		4, 1, 6, 5, 8, 7, 6, 8, 0,	
	1, 1, 0, 4, 6, 3, 3, 3, 5, 8, 7,		5, 7, 8, 8, 6, 7, 5, 8, 0,	
	8, 4, 2, 0, 1, 9, 0, 7, 9, 2, 8, 9, 3, 2, 7, 3, 5, 9, 5, 5, 3, 2,		7, 6, 4, 9, 5, 9, 6, 4, 1, 5, 6, 2, 2, 6, 7, 0, 3, 4,	
	1, 8, 3, 1, 4, 5, 2, 5, 7, 7, 0,		2, 3, 9, 0, 9, 6, 3, 6, 7,	
6, 4, 8,	1, 1, 6, 0, 2, 6, 0, 7, 5, 5, 0,	5, 2, 5, 5, 9, 0, 6, 1, 1, 5,	5, 5, 5, 9, 0, 6, 1, 1, 5,	
	9, 9, 2, 3, 0, 6, 8, 8, 4, 5, 6,		0, 9, 1, 1, 1, 0, 4, 6, 3,	
	3, 6, 8, 8, 6, 2, 1, 2, 1, 4, 6, 6, 4, 2, 3, 6, 2, 0, 9, 8, 7, 0,		3, 3, 5, 8, 7, 4, 7, 1, 7, 1, 8, 4, 2, 0, 1, 9, 0, 7,	
	9, 4, 3, 7, 9, 7, 3, 5, 7, 0, 3,		9, 2, 8, 9, 2, 5, 3, 5, 9,	
	0, 8, 6, 4, 6, 7, 3, 8, 1, 2, 1,		3, 2, 7, 3, 5, 9, 5, 5, 3,	
9, 5, 9,	5, 8, 6, 6, 8, 9, 4, 4, 0, 6, 4,	5, 3, 2, 3, 9, 4, 1, 6, 1, 8, 3,	2, 3, 9, 4, 1, 6, 1, 8, 3,	
	7, 1, 7, 2, 5, 0, 1, 9, 1, 2, 5,		1, 4, 5, 2, 5, 7, 7, 0, 9,	
' ' '	9, 6, 2, 8, 1, 2, 0, 4, 3, 4, 6, 7, 9, 4, 0, 1, 2, 3, 5, 6, 3, 5,		6, 6, 4, 8, 1, 1, 6, 0, 2, 6, 0, 7, 5, 5, 0, 5, 2, 6,	
	4, 8, 2, 5, 8, 8, 6, 6, 2, 6, 6,		9, 9, 9, 9, 2, 3, 0, 6, 8,	
2, 2, 8,	0, 8, 9, 0, 7, 9, 0, 1, 6, 6, 3,	6, 5, 8, 4, 5, 6, 2, 8, 5, 9, 8,	8, 4, 5, 6, 2, 8, 5, 9, 8,	
	0, 3, 7, 3, 7, 2, 0, 0, 2, 7, 5,		3, 6, 8, 8, 6, 2, 1, 2, 1,	
	1, 7, 7, 9, 7, 1, 1, 6, 4, 3, 8,		4, 6, 2, 0, 9, 3, 9, 6, 4,	
	9, 5, 2, 7, 2, 1, 5, 3, 9, 7, 6, 0, 6, 9, 4, 7, 1, 7, 2, 0, 4, 5,		2, 3, 6, 2, 0, 9, 8, 7, 0, 6, 0, 7, 0, 5, 9, 4, 3, 7,	
	7, 2, 2, 6, 7, 4, 4, 9, 5, 4, 5,		9, 7, 3, 5, 7, 0, 3, 1, 8,	
8, 0, 5,	5, 1, 8, 9, 4, 5, 6, 1, 2, 0, 7,	0, 2, 9, 9, 4, 0, 8, 6, 4, 6, 7,	9, 9, 4, 0, 8, 6, 4, 6, 7,	
	8, 7, 8, 7, 0, 1, 8, 5, 6, 5, 9,		3, 8, 1, 2, 1, 5, 4, 9, 5,	
	0, 1, 7, 9, 8, 1, 1, 5, 4, 5, 7,		9, 5, 8, 6, 6, 8, 9, 4, 4,	
int k =	4, 8, 0, 7, 3}; .96:	0, 6, 4, 5, 3, 0, 3, 9, 7, 1, 7, 2, 5, 0, 1, 9, 1, 2,	0, 6, 4, 5, 3, 0, 3, 9, 7, 1, 7, 2, 5, 0, 1, 9, 1, 2,	
	nead = LLNode::createWithIterator		5, 6, 8, 7, 1, 6, 9, 6, 2,	
arr + si	<pre>reof(arr) / sizeof(int));</pre>	8, 1, 2, 0, 4, 3, 4, 6, 7,	8, 1, 2, 0, 4, 3, 4, 6, 7,	
	printList(head);	1, 0, 7, 0, 7, 9, 4, 0, 1,	1, 0, 7, 0, 7, 9, 4, 0, 1,	
cout <<	`\n"; newhead = rotateLinkedList(head,	2, 3, 5, 6, 3, 5, 6, 7, 5, k); 4, 2, 4, 8, 2, 5, 8, 8, 6,	2, 3, 5, 6, 3, 5, 6, 7, 5, 4, 2, 4, 8, 2, 5, 8, 8, 6,	
	printList(newhead);	6, 2, 6, 6, 8, 1, 2, 2, 8,	6, 2, 6, 6, 8, 1, 2, 2, 8,	
	, ,,,	0, 8, 9, 0, 7, 9, 0, 1, 6,	0, 8, 9, 0, 7, 9, 0, 1, 6,	
		6, 3, 6, 5, 1, 5, 9, 0, 3,	6, 3, 6, 5, 1, 5, 9, 0, 3,	
		7, 3, 7, 2, 0, 0, 2, 7, 5,	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,	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,	9, 1, 0, 9, 5, 2, 7, 2, 1,	
		5, 3, 9, 7, 6, 9, 1, 3, 5,	5, 3, 9, 7, 6, 9, 1, 3, 5,	
		5, 0, 6, 9, 4, 7, 1, 7, 2,	5, 0, 6, 9, 4, 7, 1, 7, 2,	
		0, 4, 5, 8, 1, 6, 1, 0, 7,	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,	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,	9, 4, 5, 6, 1, 2, 0, 7, 0,	
		2, 1, 6, 8, 8, 7, 8, 7, 0,	2, 1, 6, 8, 8, 7, 8, 7, 0,	
		1, 8, 5, 6, 5, 9, 2, 2, 9,	1, 8, 5, 6, 5, 9, 2, 2, 9,	
		3, 6, 0, 1, 7, 9, 8, 1, 1,	3, 6, 0, 1, 7, 9, 8, 1, 1,	
		5, 4, 5, 7, 5, 0, 2, 0, 4, 4, 8, 0, 7, 3]	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,	6, 7, 1, 0, 7, 0, 7, 9, 4,	
		0, 1, 2, 3, 5, 6, 3, 5, 6,	0, 1, 2, 3, 5, 6, 3, 5, 6,	
		7, 5, 4, 2, 4, 8, 2, 5, 8,	7, 5, 4, 2, 4, 8, 2, 5, 8,	
		0 6 6 7 6 6 9 1 3		
		8, 6, 6, 2, 6, 6, 8, 1, 2, 2, 8, 0, 8, 9, 0, 7, 9, 0,	8, 6, 6, 2, 6, 6, 8, 1, 2, 2, 8, 0, 8, 9, 0, 7, 9, 0,	
		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,	8, 6, 6, 2, 6, 8, 1, 2, 2, 8, 0, 8, 9, 0, 7, 9, 0, 1, 6, 6, 3, 6, 5, 1, 5, 9,	

10:47 PM	17 PM Singly Linked List (CC08): Attempt review BK-LMS		
Test	Expected	Got	
	7, 5, 2, 9, 5, 5, 8, 1, 7,	7, 5, 2, 9, 5, 5, 8, 1, 7,	
	7, 9, 7, 1, 1, 6, 4, 3, 8,	7, 9, 7, 1, 1, 6, 4, 3, 8,	
	0, 7, 9, 1, 0, 9, 5, 2, 7,	0, 7, 9, 1, 0, 9, 5, 2, 7,	
	2, 1, 5, 3, 9, 7, 6, 9, 1,	2, 1, 5, 3, 9, 7, 6, 9, 1,	
	3, 5, 5, 0, 6, 9, 4, 7, 1,	3, 5, 5, 0, 6, 9, 4, 7, 1,	
	7, 2, 0, 4, 5, 8, 1, 6, 1,	7, 2, 0, 4, 5, 8, 1, 6, 1,	
	0, 7, 2, 2, 6, 7, 4, 4, 9,	0, 7, 2, 2, 6, 7, 4, 4, 9,	
	5, 4, 5, 2, 0, 8, 0, 5, 5,	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, 2, 1, 6, 8, 8, 7, 8,	
	7, 0, 1, 8, 5, 6, 5, 9, 2,		
	2, 9, 3, 6, 0, 1, 7, 9, 8,		
	1, 1, 5, 4, 5, 7, 5, 0, 2,		
	0, 4, 4, 8, 0, 7, 3, 9, 1,		
	7, 5, 8, 6, 2, 2, 2, 6, 0,		
	8, 1, 9, 6, 8, 4, 8, 4, 3,		
	7, 0, 7, 8, 9, 5, 3, 4, 7,		
	4, 3, 5, 2, 2, 7, 8, 9, 7,		
	1, 9, 9, 8, 3, 5, 7, 1, 6,		
	9, 1, 2, 0, 6, 8, 0, 4, 1,		
	6, 5, 8, 7, 6, 8, 0, 5, 7,		
	8, 8, 6, 7, 5, 8, 0, 7, 6,		
	4, 9, 5, 9, 6, 4, 1, 5, 6,		
	2, 2, 6, 7, 0, 3, 4, 2, 3,		
	9, 0, 9, 6, 3, 6, 7, 5, 5,		
	5, 9, 0, 6, 1, 1, 5, 0, 9, 1, 1, 1, 0, 4, 6, 3, 3, 3,		
	5, 8, 7, 4, 7, 1, 7, 1, 8,		
	4, 2, 0, 1, 9, 0, 7, 9, 2,		
	8, 9, 2, 5, 3, 5, 9, 3, 2,		
	7, 3, 5, 9, 5, 5, 3, 2, 3,		
	9, 4, 1, 6, 1, 8, 3, 1, 4,		
	5, 2, 5, 7, 7, 0, 9, 6, 6,		
	4, 8, 1, 1, 6, 0, 2, 6, 0,		
	7, 5, 5, 0, 5, 2, 6, 9, 9,		
	9, 9, 2, 3, 0, 6, 8, 8, 4,	9, 9, 2, 3, 0, 6, 8, 8, 4,	
	5, 6, 2, 8, 5, 9, 8, 3, 6,	5, 6, 2, 8, 5, 9, 8, 3, 6,	
	8, 8, 6, 2, 1, 2, 1, 4, 6,	8, 8, 6, 2, 1, 2, 1, 4, 6,	
	2, 0, 9, 3, 9, 6, 4, 2, 3,	2, 0, 9, 3, 9, 6, 4, 2, 3,	
	6, 2, 0, 9, 8, 7, 0, 6, 0,	6, 2, 0, 9, 8, 7, 0, 6, 0,	
	7, 0, 5, 9, 4, 3, 7, 9, 7,	7, 0, 5, 9, 4, 3, 7, 9, 7,	
	3, 5, 7, 0, 3, 1, 8, 9, 9,	3, 5, 7, 0, 3, 1, 8, 9, 9,	
	4, 0, 8, 6, 4, 6, 7, 3, 8,	4, 0, 8, 6, 4, 6, 7, 3, 8,	
	1, 2, 1, 5, 4, 9, 5, 9, 5,	1, 2, 1, 5, 4, 9, 5, 9, 5,	
	8, 6, 6, 8, 9, 4, 4, 0, 6,	8, 6, 6, 8, 9, 4, 4, 0, 6,	
	4, 5, 3, 0, 3, 9, 7, 1, 7,	4, 5, 3, 0, 3, 9, 7, 1, 7,	
	2, 5, 0, 1, 9, 1, 2, 5, 6,		
	8, 7, 1, 6, 9]	8, 7, 1, 6, 9]	

]					
		Test	Expected	Got	
	~	int arr[] = {8, 0, 8, 8, 9, 3, 3, 5, 4, 9, 7, 9,	[8, 0, 8, 8, 9, 3, 3, 5, 4,	[8, 0, 8, 8, 9, 3, 3, 5, 4,	~
		5, 3, 8, 6, 1, 0, 6, 4, 5, 1, 1, 5, 3, 8, 6, 1,	9, 7, 9, 5, 3, 8, 6, 1, 0,	9, 7, 9, 5, 3, 8, 6, 1, 0,	
		1, 1, 0, 1, 4, 9, 0, 1, 8, 0, 2, 7, 1, 5, 7, 6,	6, 4, 5, 1, 1, 5, 3, 8, 6,	6, 4, 5, 1, 1, 5, 3, 8, 6,	
		7, 7, 9, 5, 0, 9, 6, 3, 7, 6, 6, 4, 6, 2, 9, 1, 5, 0, 8, 6, 0, 8, 6, 3, 0, 3, 6, 8, 5, 0, 1, 9,	1, 1, 1, 0, 1, 4, 9, 0, 1, 8, 0, 2, 7, 1, 5, 7, 6, 7,	1, 1, 1, 0, 1, 4, 9, 0, 1, 8, 0, 2, 7, 1, 5, 7, 6, 7,	
		9, 6, 3, 3, 2, 9, 2, 0, 0, 5, 0, 4, 6, 7, 2, 6,	7, 9, 5, 0, 9, 6, 3, 7, 6,	7, 9, 5, 0, 9, 6, 3, 7, 6,	
		5, 2, 8, 8, 7, 1, 0, 9, 7, 7, 1, 5, 8, 7, 5, 7,	6, 4, 6, 2, 9, 1, 5, 0, 8,	6, 4, 6, 2, 9, 1, 5, 0, 8,	
		8, 7, 8, 7, 1, 7, 9, 7, 1, 3, 0, 5, 5, 1, 0, 2,	6, 0, 8, 6, 3, 0, 3, 6, 8,	6, 0, 8, 6, 3, 0, 3, 6, 8,	
		1, 0, 1, 5, 3, 7, 7, 9, 6, 1, 6, 4, 8, 9, 8, 6,	5, 0, 1, 9, 9, 6, 3, 3, 2,	5, 0, 1, 9, 9, 6, 3, 3, 2,	
		0, 0, 3, 6, 2, 3, 4, 9, 7, 4, 2, 2, 9, 7, 7, 4, 9, 9, 7, 5, 6, 2, 4, 0, 1, 9, 9, 8, 4, 6, 1, 2,	9, 2, 0, 0, 5, 0, 4, 6, 7, 2, 6, 5, 2, 8, 8, 7, 1, 0,	9, 2, 0, 0, 5, 0, 4, 6, 7, 2, 6, 5, 2, 8, 8, 7, 1, 0,	
		9, 6, 7, 9, 4, 7, 5, 2, 9, 4, 2, 5, 9, 4, 1, 6,	9, 7, 7, 1, 5, 8, 7, 5, 7,	9, 7, 7, 1, 5, 8, 7, 5, 7,	
		0, 0, 5, 0, 0, 6, 1, 7, 8, 6, 9, 5, 4, 7, 0, 5,	8, 7, 8, 7, 1, 7, 9, 7, 1,	8, 7, 8, 7, 1, 7, 9, 7, 1,	
		3, 2, 4, 9, 9, 2, 3, 4, 4, 1, 8, 2, 4, 4, 6, 2,	3, 0, 5, 5, 1, 0, 2, 1, 0,	3, 0, 5, 5, 1, 0, 2, 1, 0,	
		0, 5, 9, 4, 5, 8, 1, 8, 4, 7, 5, 4, 9, 7, 3, 1,	1, 5, 3, 7, 7, 9, 6, 1, 6,	1, 5, 3, 7, 7, 9, 6, 1, 6,	
		7, 7, 5, 4, 5, 6, 2, 1, 7, 5, 9, 7, 4, 8, 4, 6,	4, 8, 9, 8, 6, 0, 0, 3, 6,	4, 8, 9, 8, 6, 0, 0, 3, 6,	
		9, 3, 4, 4, 3, 7, 1, 3, 9, 3, 3, 7, 9, 7, 9, 4, 6, 0, 5, 5, 5, 6, 2, 5, 5, 9, 0, 2, 9, 0, 3, 8,	2, 3, 4, 9, 7, 4, 2, 2, 9, 7, 7, 7, 4, 9, 9, 7, 5, 6, 2,	2, 3, 4, 9, 7, 4, 2, 2, 9, 7, 7, 5, 6, 2,	
		7, 6, 1, 0, 4, 0, 7, 4, 2, 5, 0, 0, 6, 4, 3, 6,	4, 0, 1, 9, 9, 8, 4, 6, 1,	4, 0, 1, 9, 9, 8, 4, 6, 1,	
		0, 9, 2, 4, 1, 0, 3, 8, 0, 1, 7, 3, 8, 9, 0, 5,	2, 9, 6, 7, 9, 4, 7, 5, 2,	2, 9, 6, 7, 9, 4, 7, 5, 2,	
		3, 2, 8, 4, 0, 4, 6, 9, 8, 6, 5, 2, 7, 9, 0, 1,	9, 4, 2, 5, 9, 4, 1, 6, 0,	9, 4, 2, 5, 9, 4, 1, 6, 0,	
		7, 5, 5, 9, 5, 6, 8, 2, 8, 6, 7, 4, 5, 9, 0, 2,	0, 5, 0, 0, 6, 1, 7, 8, 6,	0, 5, 0, 0, 6, 1, 7, 8, 6,	
		6, 8, 4, 3, 5, 9, 9, 1, 0, 3, 2, 3, 8, 1, 0, 5, 9, 6, 8, 9, 0, 9, 9, 4, 7, 5, 1, 7, 0, 3, 8, 9,	9, 5, 4, 7, 0, 5, 3, 2, 4, 9, 9, 2, 3, 4, 4, 1, 8, 2,	9, 5, 4, 7, 0, 5, 3, 2, 4, 9, 9, 2, 3, 4, 4, 1, 8, 2,	
		9, 1, 0, 3, 0, 4, 2, 6, 6, 9, 1, 2, 5, 2, 3, 5,	4, 4, 6, 2, 0, 5, 9, 4, 5,	4, 4, 6, 2, 0, 5, 9, 4, 5,	
		1, 5, 0, 1, 6, 4, 8, 8, 4, 9, 5, 6, 5, 4, 2, 5,	8, 1, 8, 4, 7, 5, 4, 9, 7,	8, 1, 8, 4, 7, 5, 4, 9, 7,	
		9, 7, 3, 0, 6, 6, 8, 8, 7, 1, 0, 5, 3, 5, 5, 9,	3, 1, 7, 7, 5, 4, 5, 6, 2,	3, 1, 7, 7, 5, 4, 5, 6, 2,	
		4, 8, 4, 6, 9, 3, 8, 3, 4, 9, 6, 8, 9, 7, 3, 4,	1, 7, 5, 9, 7, 4, 8, 4, 6,	1, 7, 5, 9, 7, 4, 8, 4, 6,	
		1, 0, 1, 2, 0, 0, 8, 1, 8, 5, 1, 5, 1, 0, 1, 1,	9, 3, 4, 4, 3, 7, 1, 3, 9,	9, 3, 4, 4, 3, 7, 1, 3, 9,	
		4, 0, 8, 7, 2, 8, 0, 0, 9, 6, 2, 1, 5, 1, 3, 4, 2, 5, 2, 0, 2, 5, 8, 1, 1, 6, 4, 6, 5, 8, 5, 9,	3, 3, 7, 9, 7, 9, 4, 6, 0, 5, 5, 5, 6, 2, 5, 5, 9, 0,	3, 3, 7, 9, 7, 9, 4, 6, 0, 5, 5, 5, 6, 2, 5, 5, 9, 0,	
		5, 8, 1, 8, 5, 4, 2, 0, 5, 5, 0, 1, 9, 7, 1, 1,	2, 9, 0, 3, 8, 7, 6, 1, 0,	2, 9, 0, 3, 8, 7, 6, 1, 0,	
		7, 6, 1, 8, 8, 4, 6, 4, 4, 3, 1, 0, 3, 3, 7, 9,	4, 0, 7, 4, 2, 5, 0, 0, 6,	4, 0, 7, 4, 2, 5, 0, 0, 6,	
		7, 9, 5, 1, 5, 1, 5, 2, 0, 3, 1, 4, 9, 2, 6, 5,	4, 3, 6, 0, 9, 2, 4, 1, 0,	4, 3, 6, 0, 9, 2, 4, 1, 0,	
		3, 2, 7, 8, 1, 6, 7, 0, 2, 7, 6, 1, 5, 8, 3, 5,	3, 8, 0, 1, 7, 3, 8, 9, 0,	3, 8, 0, 1, 7, 3, 8, 9, 0,	
		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,	5, 3, 2, 8, 4, 0, 4, 6, 9, 8, 6, 5, 2, 7, 9, 0, 1, 7,	5, 3, 2, 8, 4, 0, 4, 6, 9, 8, 6, 5, 2, 7, 9, 0, 1, 7,	
		3, 1, 2, 4, 4, 4, 5, 5, 4, 9, 7, 0, 8, 0, 4, 3,	5, 5, 9, 5, 6, 8, 2, 8, 6,	5, 5, 9, 5, 6, 8, 2, 8, 6,	
		0, 9, 7, 7, 8, 1, 3, 7, 1, 5, 4, 7, 6, 3, 8, 6,	7, 4, 5, 9, 0, 2, 6, 8, 4,	7, 4, 5, 9, 0, 2, 6, 8, 4,	
		7, 5, 4, 2, 0, 6, 7, 4, 7, 4, 6, 1, 3, 7, 2, 4,	3, 5, 9, 9, 1, 0, 3, 2, 3,	3, 5, 9, 9, 1, 0, 3, 2, 3,	
		4, 0, 1, 2, 9, 1, 9, 5, 7, 1, 7, 7, 3, 2, 9, 8,	8, 1, 0, 5, 9, 6, 8, 9, 0,	8, 1, 0, 5, 9, 6, 8, 9, 0,	
		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,	9, 9, 4, 7, 5, 1, 7, 0, 3, 8, 9, 9, 1, 0, 3, 0, 4, 2,	9, 9, 4, 7, 5, 1, 7, 0, 3, 8, 9, 9, 1, 0, 3, 0, 4, 2,	
		0, 4, 1, 5, 2, 3, 9, 3, 9, 1, 7, 3, 1, 2, 8, 2,	6, 6, 9, 1, 2, 5, 2, 3, 5,	6, 6, 9, 1, 2, 5, 2, 3, 5,	
		0, 4, 1, 1, 8, 4, 8, 2, 0, 0, 6, 6, 5, 1, 3, 5,	1, 5, 0, 1, 6, 4, 8, 8, 4,	1, 5, 0, 1, 6, 4, 8, 8, 4,	
		0, 6, 1, 6, 1, 7, 9, 2, 3, 5, 2, 9, 6, 8, 3, 6,	9, 5, 6, 5, 4, 2, 5, 9, 7,	9, 5, 6, 5, 4, 2, 5, 9, 7,	
		9, 4, 1, 0, 8, 7, 2, 5, 7, 4, 4, 0, 2, 0, 6, 6,	3, 0, 6, 6, 8, 8, 7, 1, 0,	3, 0, 6, 6, 8, 8, 7, 1, 0,	
		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,	5, 3, 5, 5, 9, 4, 8, 4, 6, 9, 3, 8, 3, 4, 9, 6, 8, 9,	5, 3, 5, 5, 9, 4, 8, 4, 6, 9, 3, 8, 3, 4, 9, 6, 8, 9,	
		4, 1, 0, 0, 0, 8, 7, 9, 4, 0, 0, 3, 5, 5, 1, 9,	7, 3, 4, 1, 0, 1, 2, 0, 0,	7, 3, 4, 1, 0, 1, 2, 0, 0,	
		5, 9, 3, 7, 5, 9, 0, 9, 8, 2, 7, 2, 0, 5, 2, 5,	8, 1, 8, 5, 1, 5, 1, 0, 1,	8, 1, 8, 5, 1, 5, 1, 0, 1,	
		1, 6, 0, 8, 5, 2, 4, 9, 0, 8, 3, 9, 1, 9, 9, 2,	1, 4, 0, 8, 7, 2, 8, 0, 0,	1, 4, 0, 8, 7, 2, 8, 0, 0,	
		5, 5, 3, 0, 5, 4, 4, 5, 3, 2, 0, 2, 4, 3, 5, 1,	9, 6, 2, 1, 5, 1, 3, 4, 2,	9, 6, 2, 1, 5, 1, 3, 4, 2,	
		9, 3, 0, 8, 1, 4, 4, 9, 9, 0, 9, 9, 1, 3, 0, 1,	5, 2, 0, 2, 5, 8, 1, 1, 6,	5, 2, 0, 2, 5, 8, 1, 1, 6,	
		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, 6, 5, 8, 5, 9, 5, 8, 1, 8, 5, 4, 2, 0, 5, 5, 0, 1,	4, 6, 5, 8, 5, 9, 5, 8, 1, 8, 5, 4, 2, 0, 5, 5, 0, 1,	
		4, 9, 6, 2, 0, 0, 6, 8, 4, 6, 7, 7, 8, 0, 7, 7,	9, 7, 1, 1, 7, 6, 1, 8, 8,	9, 7, 1, 1, 7, 6, 1, 8, 8,	
		5, 6, 5, 6, 2, 8, 3, 2, 7, 5, 7, 4, 0, 0, 2, 2,	4, 6, 4, 4, 3, 1, 0, 3, 3,	4, 6, 4, 4, 3, 1, 0, 3, 3,	
		6, 7, 8, 5, 9, 3, 3, 0, 6, 5, 4, 5, 9, 4, 1, 2,	7, 9, 7, 9, 5, 1, 5, 1, 5,	7, 9, 7, 9, 5, 1, 5, 1, 5,	
		9, 7, 6, 2, 0, 2, 3, 3, 8, 0, 1, 8, 4, 7, 1, 0,	2, 0, 3, 1, 4, 9, 2, 6, 5,	2, 0, 3, 1, 4, 9, 2, 6, 5,	
		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,	3, 2, 7, 8, 1, 6, 7, 0, 2, 7, 6, 1, 5, 8, 3, 5, 0, 4,	3, 2, 7, 8, 1, 6, 7, 0, 2, 7, 6, 1, 5, 8, 3, 5, 0, 4,	
		6, 0, 2, 2, 7, 8, 9, 3, 4, 5, 7, 8, 4, 0, 7, 2,	7, 9, 8, 8, 2, 6, 9, 9, 7,	7, 9, 8, 8, 2, 6, 9, 9, 7,	
		8};	8, 3, 8, 8, 0, 8, 6, 4, 5,	8, 3, 8, 8, 0, 8, 6, 4, 5,	

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

, '	0.47 1 1	VI Olligiy L	inked List (0000). Attempt review	BIC-LIVIO
		Test	Expected	Got
			5, 5, 1, 8, 3, 7, 8, 8, 1,	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,	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,	0, 8, 5, 2, 4, 9, 0, 8, 3,
			9, 1, 9, 9, 2, 5, 5, 3, 0,	9, 1, 9, 9, 2, 5, 5, 3, 0,
			5, 4, 4, 5, 3, 2, 0, 2, 4,	5, 4, 4, 5, 3, 2, 0, 2, 4,
			3, 5, 1, 9, 3, 0, 8, 1, 4,	3, 5, 1, 9, 3, 0, 8, 1, 4,
			4, 9, 9, 0, 9, 9, 1, 3, 0,	4, 9, 9, 0, 9, 9, 1, 3, 0,
			1, 1, 9, 6, 9, 2, 4, 4, 2,	1, 1, 9, 6, 9, 2, 4, 4, 2,
			5, 2, 3, 9, 6, 2, 3, 0, 8,	5, 2, 3, 9, 6, 2, 3, 0, 8,
			3, 2, 8, 8, 3, 0, 5, 1, 8,	3, 2, 8, 8, 3, 0, 5, 1, 8,
			8, 2, 9, 3, 7, 7, 4, 9, 6,	8, 2, 9, 3, 7, 7, 4, 9, 6,
			2, 0, 0, 6, 8, 4, 6, 7, 7,	2, 0, 0, 6, 8, 4, 6, 7, 7,
			8, 0, 7, 7, 5, 6, 5, 6, 2,	8, 0, 7, 7, 5, 6, 5, 6, 2,
			8, 3, 2, 7, 5, 7, 4, 0, 0,	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,	0, 1, 8, 4, 7, 1, 0, 6, 4,
			1, 0, 4, 0, 4, 8, 9, 5, 1,	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, 8, 0, 8, 8, 9, 3, 3,
				5, 4, 9, 7, 9, 5, 3, 8, 6,
				1, 0, 6, 4, 5, 1, 1, 5, 3,
				8, 6, 1, 1, 1, 0, 1, 4, 9,
				0, 1, 8, 0, 2, 7, 1, 5, 7,
				6, 7, 7, 9, 5, 0, 9, 6, 3,
				7, 6, 6, 4, 6, 2, 9, 1, 5, 0, 8, 6, 0, 8, 6, 3, 0, 3,
				6, 8, 5, 0, 1, 9, 9, 6, 3,
			3, 2, 9, 2, 0, 0, 5, 0, 4,	3, 2, 9, 2, 0, 0, 5, 0, 4,
			6, 7, 2, 6, 5, 2, 8, 8, 7,	6, 7, 2, 6, 5, 2, 8, 8, 7,
			1, 0, 9, 7, 7, 1, 5, 8, 7,	1, 0, 9, 7, 7, 1, 5, 8, 7,
			5, 7, 8, 7, 8, 7, 1, 7, 9,	5, 7, 8, 7, 8, 7, 1, 7, 9,
			7, 1, 3, 0, 5, 5, 1, 0, 2,	7, 1, 3, 0, 5, 5, 1, 0, 2,
			1, 0, 1, 5, 3, 7, 7, 9, 6,	1, 0, 1, 5, 3, 7, 7, 9, 6,
			1, 6, 4, 8, 9, 8, 6, 0, 0,	1, 6, 4, 8, 9, 8, 6, 0, 0,
			3, 6, 2, 3, 4, 9, 7, 4, 2,	3, 6, 2, 3, 4, 9, 7, 4, 2,
			2, 9, 7, 7, 4, 9, 9, 7, 5,	2, 9, 7, 7, 4, 9, 9, 7, 5,
			6, 2, 4, 0, 1, 9, 9, 8, 4,	6, 2, 4, 0, 1, 9, 9, 8, 4,
			6, 1, 2, 9, 6, 7, 9, 4, 7,	6, 1, 2, 9, 6, 7, 9, 4, 7,
			5, 2, 9, 4, 2, 5, 9, 4, 1,	5, 2, 9, 4, 2, 5, 9, 4, 1,
			6, 0, 0, 5, 0, 0, 6, 1, 7,	6, 0, 0, 5, 0, 0, 6, 1, 7,
			8, 6, 9, 5, 4, 7, 0, 5, 3,	8, 6, 9, 5, 4, 7, 0, 5, 3,
			2, 4, 9, 9, 2, 3, 4, 4, 1,	2, 4, 9, 9, 2, 3, 4, 4, 1,
			8, 2, 4, 4, 6, 2, 0, 5, 9,	8, 2, 4, 4, 6, 2, 0, 5, 9,
			4, 5, 8, 1, 8, 4, 7, 5, 4,	4, 5, 8, 1, 8, 4, 7, 5, 4,
			9, 7, 3, 1, 7, 7, 5, 4, 5,	9, 7, 3, 1, 7, 7, 5, 4, 5,
			6, 2, 1, 7, 5, 9, 7, 4, 8,	6, 2, 1, 7, 5, 9, 7, 4, 8,
			4, 6, 9, 3, 4, 4, 3, 7, 1,	4, 6, 9, 3, 4, 4, 3, 7, 1,
			3, 9, 3, 3, 7, 9, 7, 9, 4,	3, 9, 3, 3, 7, 9, 7, 9, 4,
				6, 0, 5, 5, 5, 6, 2, 5, 5,
			9, 0, 2, 9, 0, 3, 8, 7, 6,	9, 0, 2, 9, 0, 3, 8, 7, 6,
			1, 0, 4, 0, 7, 4, 2, 5, 0, 0, 6, 4, 3, 6, 0, 9, 2, 4,	1, 0, 4, 0, 7, 4, 2, 5, 0, 0, 6, 4, 3, 6, 0, 9, 2, 4,
				1, 0, 3, 8, 0, 1, 7, 3, 8,
			9, 0, 5, 3, 2, 8, 4, 0, 4,	9, 0, 5, 3, 2, 8, 4, 0, 4,
			6, 9, 8, 6, 5, 2, 7, 9, 0,	6, 9, 8, 6, 5, 2, 7, 9, 0,
				-, , -, -, -, -, , , , ,

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

	Test	Expected	Got	
~	int arr[] = {3, 1, 6, 8, 6, 6, 1, 5, 7, 1, 7, 6,	•	[3, 1, 6, 8, 6, 6, 1, 5, 7,	_
•	7, 1, 9, 6, 8, 9, 7, 6, 4, 0, 3, 8, 9, 4, 7, 1,	1, 7, 6, 7, 1, 9, 6, 8, 9,	1, 7, 6, 7, 1, 9, 6, 8, 9,	Ť
	1, 6, 9, 3, 8, 8, 0, 4, 9, 7, 4, 7, 6, 3, 4, 9,	7, 6, 4, 0, 3, 8, 9, 4, 7,	7, 6, 4, 0, 3, 8, 9, 4, 7,	
	9, 6, 4, 1, 1, 4, 8, 8, 1, 6, 5, 2, 8, 5, 3, 9, 0, 8, 9, 1, 6, 9, 3, 9, 6, 9, 9, 9, 3, 8, 8, 3,	1, 1, 6, 9, 3, 8, 8, 0, 4, 9, 7, 4, 7, 6, 3, 4, 9, 9,	1, 1, 6, 9, 3, 8, 8, 0, 4, 9, 7, 4, 7, 6, 3, 4, 9, 9,	
	0, 7, 8, 9, 1, 9, 2, 5, 6, 4, 3, 1, 9, 1, 0, 0,	6, 4, 1, 1, 4, 8, 8, 1, 6,	6, 4, 1, 1, 4, 8, 8, 1, 6,	
	8, 2, 1, 7, 7, 3, 3, 5, 6, 0, 5, 5, 6, 9, 7, 0,	5, 2, 8, 5, 3, 9, 0, 8, 9,	5, 2, 8, 5, 3, 9, 0, 8, 9,	
	9, 4, 5, 8, 6, 5, 1, 3, 4, 7, 4, 4, 6, 6, 9, 8, 2, 4, 1, 0, 6, 0, 6, 0, 6, 2, 4, 5, 6, 5, 6, 2,	1, 6, 9, 3, 9, 6, 9, 9, 9,	1, 6, 9, 3, 9, 6, 9, 9, 9, 3, 8, 8, 3, 0, 7, 8, 9, 1,	
	1, 1, 6, 4, 0, 6, 8, 7, 3, 9, 6, 2, 6, 9, 3, 6,	3, 8, 8, 3, 0, 7, 8, 9, 1, 9, 2, 5, 6, 4, 3, 1, 9, 1,	9, 2, 5, 6, 4, 3, 1, 9, 1,	
	0, 6, 2, 2, 3, 5, 0, 5, 6, 5, 1, 4, 0, 8, 9, 4,	0, 0, 8, 2, 1, 7, 7, 3, 3,	0, 0, 8, 2, 1, 7, 7, 3, 3,	
	3, 1, 9, 6, 3, 0, 0, 2, 0, 8, 8, 2, 1, 1, 8, 0,	5, 6, 0, 5, 5, 6, 9, 7, 0,	5, 6, 0, 5, 5, 6, 9, 7, 0,	
	0, 9, 2, 9, 7, 3, 3, 9, 8, 6, 4, 7, 7, 4, 7, 4, 8, 3, 9, 3, 0, 7, 0, 2, 0, 6, 4, 1, 2, 2, 1, 4,	9, 4, 5, 8, 6, 5, 1, 3, 4, 7, 4, 4, 6, 6, 9, 8, 2, 4,	9, 4, 5, 8, 6, 5, 1, 3, 4, 7, 4, 4, 6, 6, 9, 8, 2, 4,	
	4, 7, 7, 0, 9, 4, 4, 6, 3, 8, 6, 4, 2, 8, 2, 8,	1, 0, 6, 0, 6, 0, 6, 2, 4,	1, 0, 6, 0, 6, 0, 6, 2, 4,	
	9, 1, 7, 1, 4, 2, 9, 7, 8, 3, 4, 5, 7, 5, 0, 0,	5, 6, 5, 6, 2, 1, 1, 6, 4,	5, 6, 5, 6, 2, 1, 1, 6, 4,	
	1, 8, 9, 7, 8, 1, 4, 2, 9, 3, 9, 1, 4, 2, 1, 1, 3, 6, 1, 4, 2, 1, 5, 9, 9, 9, 2, 0, 3, 2, 5, 7,	0, 6, 8, 7, 3, 9, 6, 2, 6, 9, 3, 6, 0, 6, 2, 2, 3, 5,	0, 6, 8, 7, 3, 9, 6, 2, 6, 9, 3, 6, 0, 6, 2, 2, 3, 5,	
	5, 4, 8, 0, 1, 7, 5, 2, 5, 2, 2, 1, 2, 8, 2, 9,	0, 5, 6, 5, 1, 4, 0, 8, 9,	0, 5, 6, 5, 1, 4, 0, 8, 9,	
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	8, 0, 7, 7, 1, 0, 7, 2, 5, 7, 5, 2, 9, 5, 3, 1,	4, 7, 7, 4, 7, 4, 8, 3, 9,	4, 7, 7, 4, 7, 4, 8, 3, 9,	
	8, 2, 8, 3, 4, 9, 3, 9, 3, 5, 6, 9, 9, 0, 9, 6,	3, 0, 7, 0, 2, 0, 6, 4, 1,	3, 0, 7, 0, 2, 0, 6, 4, 1,	
	3, 7, 8, 6, 1, 2, 2, 3, 8, 2, 4, 5, 0, 5, 8, 3, 2, 8, 6, 9, 0, 5, 7, 4, 2, 2, 9, 9, 2, 7, 0, 5,	2, 2, 1, 4, 4, 7, 7, 0, 9, 4, 4, 6, 3, 8, 6, 4, 2, 8,	2, 2, 1, 4, 4, 7, 7, 0, 9, 4, 4, 6, 3, 8, 6, 4, 2, 8,	
	0, 8, 7, 1, 6, 3, 3, 7, 9, 9, 9, 8, 6, 9, 9, 8,	2, 8, 9, 1, 7, 1, 4, 2, 9,	2, 8, 9, 1, 7, 1, 4, 2, 9,	
	9, 2, 8, 6, 4, 2, 1, 6, 6, 0, 9, 8, 2, 1, 9, 4,	7, 8, 3, 4, 5, 7, 5, 0, 0,	7, 8, 3, 4, 5, 7, 5, 0, 0,	
	7, 7, 9, 6, 7, 0, 6, 6, 6, 7, 0, 2, 6, 2, 3, 4, 0, 8, 1, 8, 4, 8, 3, 8, 6, 8, 6, 5, 9, 5, 9, 8,	1, 8, 9, 7, 8, 1, 4, 2, 9, 3, 9, 1, 4, 2, 1, 1, 3, 6,	1, 8, 9, 7, 8, 1, 4, 2, 9, 3, 9, 1, 4, 2, 1, 1, 3, 6,	
	9, 1, 1, 6, 7, 6, 1, 1, 3, 9, 3, 4, 1, 6, 8, 5,	1, 4, 2, 1, 5, 9, 9, 9, 2,	1, 4, 2, 1, 5, 9, 9, 9, 2,	
	6, 9, 9, 0, 9, 7, 3, 4, 7, 4, 0, 6, 6, 0, 6, 6,	0, 3, 2, 5, 7, 5, 4, 8, 0,	0, 3, 2, 5, 7, 5, 4, 8, 0,	
	3, 1, 9, 3, 9, 1, 2, 0, 3, 5, 4, 5, 8, 2, 0, 5,	1, 7, 5, 2, 5, 2, 2, 1, 2,	1, 7, 5, 2, 5, 2, 2, 1, 2,	
	3, 2, 2, 0, 9, 8, 3, 8, 0, 6, 3, 3, 5, 6, 8, 6, 2, 9, 9, 1, 0, 9, 6, 4, 6, 4, 1, 6, 5, 7, 1, 2,	8, 2, 9, 7, 7, 7, 6, 6, 8, 3, 8, 2, 0, 8, 1, 9, 1, 6,	8, 2, 9, 7, 7, 7, 6, 6, 8, 3, 8, 2, 0, 8, 1, 9, 1, 6,	
	2, 8, 6, 6, 8, 2, 0, 3, 4, 7, 7, 3, 3, 2, 3, 4,	8, 6, 6, 6, 4, 3, 0, 6, 8,	8, 6, 6, 6, 4, 3, 0, 6, 8,	
	5, 2, 8, 7, 1, 7, 7, 7, 9, 7, 0, 4, 7, 9, 5, 2,	7, 0, 5, 0, 0, 2, 8, 6, 7,	7, 0, 5, 0, 0, 2, 8, 6, 7,	
	7, 5, 6, 1, 5, 3, 4, 3, 8, 8, 3, 8, 9, 9, 3, 7, 7, 7, 9, 3, 7, 8, 6, 5, 7, 2, 9, 4, 0, 9, 6, 0,	0, 4, 0, 3, 1, 9, 9, 4, 6, 7, 0, 8, 4, 1, 0, 8, 0, 7,	0, 4, 0, 3, 1, 9, 9, 4, 6, 7, 0, 8, 4, 1, 0, 8, 0, 7,	
	4, 2, 0, 6, 3, 8, 7, 4, 3, 8, 9, 8, 1, 1, 1, 6,	7, 1, 0, 7, 2, 5, 7, 5, 2,	7, 1, 0, 7, 2, 5, 7, 5, 2,	
	9, 8, 4, 5, 2, 8, 2, 3, 3, 6, 5, 5, 8, 2, 6, 5,	9, 5, 3, 1, 8, 2, 8, 3, 4,	9, 5, 3, 1, 8, 2, 8, 3, 4,	
	0, 4, 9, 9, 7, 6, 3, 1, 7, 5, 0, 0, 4, 9, 6, 0, 4, 6, 0, 8, 5, 6, 5, 3, 8, 0, 4, 5, 6, 2, 8, 6,	9, 3, 9, 3, 5, 6, 9, 9, 0, 9, 6, 3, 7, 8, 6, 1, 2, 2,	9, 3, 9, 3, 5, 6, 9, 9, 0, 9, 6, 3, 7, 8, 6, 1, 2, 2,	
	0, 3, 9, 6, 2, 1, 4, 7, 3, 3, 3, 8, 6, 1, 0, 7,	3, 8, 2, 4, 5, 0, 5, 8, 3,	3, 8, 2, 4, 5, 0, 5, 8, 3,	
	8, 2, 9, 0, 6, 3, 3, 5, 5, 0, 8, 4, 7, 4, 4, 5,	2, 8, 6, 9, 0, 5, 7, 4, 2,	2, 8, 6, 9, 0, 5, 7, 4, 2,	
	9, 2, 7, 7, 8, 8, 8, 0, 8, 8, 0, 4, 8, 4, 4, 7, 6, 2, 5, 2, 7, 3, 7, 0, 9, 8, 1, 5, 0, 3, 8, 4,	2, 9, 9, 2, 7, 0, 5, 0, 8, 7, 1, 6, 3, 3, 7, 9, 9, 9,	2, 9, 9, 2, 7, 0, 5, 0, 8, 7, 1, 6, 3, 3, 7, 9, 9, 9,	
	0, 7, 5, 0, 5, 4, 5, 4, 9, 6, 3, 5, 8, 1, 0, 8,	8, 6, 9, 9, 8, 9, 2, 8, 6,	8, 6, 9, 9, 8, 9, 2, 8, 6,	
	0, 8, 2, 6, 5, 3, 4, 8, 8, 9, 5, 3, 8, 1, 0, 2,	4, 2, 1, 6, 6, 0, 9, 8, 2,	4, 2, 1, 6, 6, 0, 9, 8, 2,	
	9, 9, 9, 1, 0, 1, 4, 9, 7, 1, 8, 4, 5, 2, 6, 2, 4, 1, 6, 4, 7, 4, 0, 3, 3, 2, 4, 7, 9, 0, 6, 2,	1, 9, 4, 7, 7, 9, 6, 7, 0, 6, 6, 6, 6, 7, 0, 2, 6, 2, 3,	1, 9, 4, 7, 7, 9, 6, 7, 0, 6, 6, 6, 6, 7, 0, 2, 6, 2, 3,	
	2, 7, 4, 6, 7, 2, 5, 7, 7, 5, 7, 5, 4, 8, 4, 1,	4, 0, 8, 1, 8, 4, 8, 3, 8,	4, 0, 8, 1, 8, 4, 8, 3, 8,	
	7, 4, 5, 9, 9, 8, 8, 4, 5, 6, 6, 3, 3, 7, 6, 1,	6, 8, 6, 5, 9, 5, 9, 8, 9,	6, 8, 6, 5, 9, 5, 9, 8, 9,	
	6, 7, 9, 9, 5, 4, 0, 7, 0, 4, 5, 8, 2, 8, 8, 1,	1, 1, 6, 7, 6, 1, 1, 3, 9,	1, 1, 6, 7, 6, 1, 1, 3, 9,	
	2, 0, 9, 1, 8, 1, 8, 4, 7, 3, 1, 1, 2, 3, 0, 4, 7, 5, 4, 4, 3, 5, 4, 6, 6, 0, 3, 7, 4, 4, 5, 7,	3, 4, 1, 6, 8, 5, 6, 9, 9, 0, 9, 7, 3, 4, 7, 4, 0, 6,	3, 4, 1, 6, 8, 5, 6, 9, 9, 0, 9, 7, 3, 4, 7, 4, 0, 6,	
	7, 3, 9, 1, 8, 0, 0, 5, 0, 9, 8, 3, 3, 3, 6, 6,	6, 0, 6, 6, 3, 1, 9, 3, 9,	6, 0, 6, 6, 3, 1, 9, 3, 9,	
	6, 6, 2, 5, 8, 1, 5, 2, 8, 2, 1, 4, 6, 2, 5, 8,	1, 2, 0, 3, 5, 4, 5, 8, 2,	1, 2, 0, 3, 5, 4, 5, 8, 2,	
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	2, 8, 0, 1, 8, 6, 6, 4, 5, 1, 3, 3, 9, 1, 1, 9,	2, 9, 9, 1, 0, 9, 6, 4, 6,	2, 9, 9, 1, 0, 9, 6, 4, 6,	
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	7, 4, 3, 4, 3, 5, 2, 8, 4, 0, 9, 9, 0, 5, 6, 0, 1, 9, 0, 5, 6, 7, 7, 5, 4, 7, 3, 5, 0, 3, 2, 2,	6, 6, 8, 2, 0, 3, 4, 7, 7, 3, 3, 2, 3, 4, 5, 2, 8, 7,	6, 6, 8, 2, 0, 3, 4, 7, 7, 3, 3, 2, 3, 4, 5, 2, 8, 7,	

10.77	W Singly L	illiked Eist (0000). Attempt review	BIX-EIVIO
	Test	Expected	Got
	2, 9, 0, 0, 6, 1, 9, 1, 7, 1, 3, 4, 6, 9, 6, 1,	1, 7, 7, 7, 9, 7, 0, 4, 7,	1, 7, 7, 7, 9, 7, 0, 4, 7,
	3, 7, 4, 5, 7, 2, 6, 8, 2, 8, 5, 0, 5, 6, 1, 7,	9, 5, 2, 7, 5, 6, 1, 5, 3,	9, 5, 2, 7, 5, 6, 1, 5, 3,
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	2, 7, 3, 4, 3, 6, 8, 7, 1, 7, 6, 7, 9, 5, 7, 2,	8, 2, 6, 5, 0, 4, 9, 9, 7,	8, 2, 6, 5, 0, 4, 9, 9, 7,
	8, 1, 1, 8, 7, 4, 6, 5, 7, 7, 0, 3, 8, 0, 5, 3,	6, 3, 1, 7, 5, 0, 0, 4, 9,	6, 3, 1, 7, 5, 0, 0, 4, 9,
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	2, 7, 5, 2, 3, 0, 7, 5, 9, 8, 1, 2, 8, 1, 4, 0,	8, 1, 8, 4, 7, 3, 1, 1, 2,	8, 1, 8, 4, 7, 3, 1, 1, 2,
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	2, 5, 0, 1, 8, 7, 4, 2, 6, 7, 1, 8, 8, 6, 7, 4,	7, 7, 3, 9, 1, 8, 0, 0, 5,	7, 7, 3, 9, 1, 8, 0, 0, 5,
	0, 9, 5, 6, 2, 8, 5, 4, 8, 1, 6, 7, 2, 4, 5, 1,	0, 9, 8, 3, 3, 3, 6, 6, 6,	0, 9, 8, 3, 3, 6, 6, 6,
	9, 7, 9, 9, 5, 2, 7, 3, 2, 2, 5, 8, 2, 2, 3, 9,	6, 2, 5, 8, 1, 5, 2, 8, 2,	6, 2, 5, 8, 1, 5, 2, 8, 2,
	6, 2, 1, 7, 7, 4, 8, 6, 3, 4, 8, 4, 9, 7, 8, 4,	1, 4, 6, 2, 5, 8, 2, 9, 3,	1, 4, 6, 2, 5, 8, 2, 9, 3,
	8, 2, 5, 8, 0, 5, 5, 7, 0, 0, 5, 3, 7, 0, 9, 1,	9, 4, 8, 2, 1, 3, 6, 7, 9,	9, 4, 8, 2, 1, 3, 6, 7, 9,
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	0, 8, 9, 0, 1, 0, 0, 6, 5, 7, 3, 9, 0, 2, 3, 8,	4, 2, 1, 3, 8, 3, 0, 8, 9,	4, 2, 1, 3, 8, 3, 0, 8, 9,
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Test	Expected	Got
8, 7, 5, 5, 4, 6, 4, 3, 4, 4, 4, 8, 7, 3, 4, 1,	3, 6, 8, 7, 1, 7, 6, 7, 9,	3, 6, 8, 7, 1, 7, 6, 7, 9,
3, 8, 1, 4, 4, 7, 8, 6, 9, 6, 8, 2, 4, 6, 7, 5,	5, 7, 2, 8, 1, 1, 8, 7, 4,	5, 7, 2, 8, 1, 1, 8, 7, 4,
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9, 2, 5, 7, 7, 3, 5, 8, 5, 4, 9, 1, 1, 5, 6, 2,	9, 2, 2, 0, 5, 0, 9, 4, 4,	9, 2, 2, 0, 5, 0, 9, 4, 4,
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6, 8, 6, 4, 9, 2, 3, 0, 5, 7, 2, 3, 1, 9, 7, 1,	snip 7, 8, 2, 8, 6,	snip 7, 8, 2, 8, 6,
7, 0, 3, 9, 5, 7, 2, 1, 5, 6, 1, 5, 3, 8, 0, 1,	3, 4, 1, 0, 2, 4, 7, 0, 2,	3, 4, 1, 0, 2, 4, 7, 0, 2,
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7, 1, 5, 2, 3, 4, 3, 8, 6, 4, 0, 9, 8, 3, 8, 4,	5, 7, 5, 3, 6, 0, 5, 9, 0,	5, 7, 5, 3, 6, 0, 5, 9, 0,
3, 7, 9, 4, 3, 1, 7, 8, 6, 5, 8, 5, 6, 4, 0, 6,	9, 9, 0, 3, 0, 9, 3, 9, 6,	9, 9, 0, 3, 0, 9, 3, 9, 6,
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1, 5, 2, 8, 6, 0, 9, 0, 6, 9, 0, 3, 0, 9, 8, 7,	1, 4, 5, 5, 6, 2, 6, 1, 0,	1, 4, 5, 5, 6, 2, 6, 1, 0,
3, 3, 1, 0, 7, 2, 1, 3, 3, 7, 7, 6, 9, 1, 3, 8, 5, 6, 2, 8, 8, 3, 7, 3, 4, 7, 6, 6, 8, 5, 1, 7,	4, 0, 7, 1, 3, 3, 4, 5, 0, 7, 1, 0, 9, 8, 7, 0, 0, 8,	4, 0, 7, 1, 3, 3, 4, 5, 0, 7, 1, 0, 9, 8, 7, 0, 0, 8,
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9, 2, 6, 2, 8, 7, 7, 5, 9, 4, 4, 3, 0, 6, 2, 2,	0, 7, 4, 7, 2, 8, 6, 3, 9,	0, 7, 4, 7, 2, 8, 6, 3, 9,
6, 5, 4, 4, 7, 8, 0, 7, 5, 8, 5, 6, 7, 2, 5, 3,	7, 0, 6, 3, 9, 6, 7, 7, 4,	7, 0, 6, 3, 9, 6, 7, 7, 4,
4, 6, 4, 4};	6, 9, 7, 5, 9, 9, 4, 8, 3,	6, 9, 7, 5, 9, 9, 4, 8, 3,
int k = 1000;	3, 6, 6, 6, 7, 5, 4, 7, 0,	3, 6, 6, 6, 7, 5, 4, 7, 0,
LLNode* head = LLNode::createWithIterators(arr,	6, 2, 9, 7, 4, 2, 3, 9, 3,	6, 2, 9, 7, 4, 2, 3, 9, 3,
<pre>arr + sizeof(arr) / sizeof(int));</pre>	9, 6, 0, 7, 8, 0, 0, 7, 9,	9, 6, 0, 7, 8, 0, 0, 7, 9,
<pre>LLNode::printList(head);</pre>	1, 6, 0, 7, 1, 6, 1, 0, 9,	1, 6, 0, 7, 1, 6, 1, 0, 9,
cout << "\n";	1, 0, 9, 1, 8, 3, 6, 8, 1,	1, 0, 9, 1, 8, 3, 6, 8, 1,
<pre>LLNode* newhead = rotateLinkedList(head, k);</pre>	2, 8, 5, 9, 7, 1, 1, 5, 4,	2, 8, 5, 9, 7, 1, 1, 5, 4,
LLNode::printList(newhead);	5, 7, 5, 9, 4, 9, 5, 4, 2,	5, 7, 5, 9, 4, 9, 5, 4, 2,
	4, 4, 1, 1, 3, 1, 9, 8, 6,	4, 4, 1, 1, 3, 1, 9, 8, 6,
	4, 1, 2, 2, 4, 2, 9, 8, 2,	4, 1, 2, 2, 4, 2, 9, 8, 2,
	4, 9, 0, 3, 6, 1, 1, 8, 4,	4, 9, 0, 3, 6, 1, 1, 8, 4,
	2, 0, 7, 6, 7, 3, 9, 7, 0, 9, 8, 6, 0, 5, 1, 8, 0, 2,	2, 0, 7, 6, 7, 3, 9, 7, 0, 9, 8, 6, 0, 5, 1, 8, 0, 2,
	9, 5, 5, 8, 5, 3, 9, 8, 7,	9, 5, 5, 8, 5, 3, 9, 8, 7,
	0, 4, 8, 2, 2, 6, 8, 4, 1,	0, 4, 8, 2, 2, 6, 8, 4, 1,
	4, 7, 2, 2, 1, 0, 6, 4, 8,	4, 7, 2, 2, 1, 0, 6, 4, 8,
	9, 5, 1, 0, 2, 6, 3, 9, 1,	9, 5, 1, 0, 2, 6, 3, 9, 1,
	2, 0, 1, 3, 6, 4, 7, 0, 0,	2, 0, 1, 3, 6, 4, 7, 0, 0,
	5, 6, 7, 3, 2, 6, 8, 8, 5,	5, 6, 7, 3, 2, 6, 8, 8, 5,
	4, 8, 4, 5, 0, 2, 8, 1, 2,	4, 8, 4, 5, 0, 2, 8, 1, 2,
	9, 9, 5, 1, 4, 8, 8, 1, 3,	9, 9, 5, 1, 4, 8, 8, 1, 3,
	9, 2, 8, 6, 1, 0, 8, 7, 3,	9, 2, 8, 6, 1, 0, 8, 7, 3,
	7, 3, 6, 9, 7, 1, 7, 9, 3,	7, 3, 6, 9, 7, 1, 7, 9, 3,
	3, 8, 7, 9, 1, 9, 1, 9, 4,	3, 8, 7, 9, 1, 9, 1, 9, 4,
	1, 1, 0, 3, 6, 7, 5, 3, 7,	1, 1, 0, 3, 6, 7, 5, 3, 7,
	8, 8, 1, 4, 9, 0, 3, 9, 9,	8, 8, 1, 4, 9, 0, 3, 9, 9,
	6, 4, 8, 2, 6, 7, 9, 0, 3,	6, 4, 8, 2, 6, 7, 9, 0, 3,
	6, 4, 8, 2, 6, 7, 9, 0, 3, 9, 0, 6, 8, 9, 2, 1, 2, 5, 0, 8, 8, 4, 5, 6, 3, 7, 5,	6, 4, 8, 2, 6, 7, 9, 0, 3, 9, 0, 6, 8, 9, 2, 1, 2, 5, 0, 8, 8, 4, 5, 6, 3, 7, 5,

, 11	U.47 PI	vi Sirigiy L	inked List (CC06). Attempt review	DK-LIVIS
		Test	Expected	Got
			3, 0, 8, 2, 1, 4, 5, 1, 7,	3, 0, 8, 2, 1, 4, 5, 1, 7,
			6, 4, 1, 3, 5, 3, 7, 3, 9,	6, 4, 1, 3, 5, 3, 7, 3, 9,
			2, 8, 8, 0, 6, 1, 0, 2, 5,	2, 8, 8, 0, 6, 1, 0, 2, 5,
			3, 2, 1, 4, 4, 1, 6, 2, 8,	3, 2, 1, 4, 4, 1, 6, 2, 8,
				7, 2, 8, 1, 4, 7, 0, 6, 0,
			5, 5, 0, 9, 6, 0, 6, 8, 6,	5, 5, 0, 9, 6, 0, 6, 8, 6,
				7, 7, 3, 9, 0, 2, 9, 0, 6,
				7, 4, 7, 3, 3, 1, 1, 3, 7,
				0, 3, 2, 4, 1, 6, 4, 2, 9,
			3, 8, 3, 1, 3, 4, 8, 4, 3,	3, 8, 3, 1, 3, 4, 8, 4, 3, 6, 3, 4, 6, 7, 8, 3, 0, 7,
			6, 3, 4, 6, 7, 8, 3, 0, 7, 2, 3, 3, 9, 6, 8, 3, 0, 3,	2, 3, 3, 9, 6, 8, 3, 0, 3,
				1, 2, 2, 7, 7, 1, 9, 7, 8,
			0, 6, 1, 7, 4, 2, 1, 5, 5,	0, 6, 1, 7, 4, 2, 1, 5, 5,
			1, 4, 7, 7, 8, 6, 3, 2, 4,	1, 4, 7, 7, 8, 6, 3, 2, 4,
				7, 4, 3, 5, 0, 4, 5, 5, 9,
			4, 1, 2, 0, 4, 6, 3, 3, 2,	4, 1, 2, 0, 4, 6, 3, 3, 2,
			9, 4, 1, 4, 8, 3, 7, 2, 3,	9, 4, 1, 4, 8, 3, 7, 2, 3,
			3, 4, 5, 9, 0, 1, 0, 8, 5,	3, 4, 5, 9, 0, 1, 0, 8, 5,
			1, 1, 7, 4, 8, 6, 1, 0, 9,	1, 1, 7, 4, 8, 6, 1, 0, 9,
			5, 5, 3, 9, 8, 0, 0, 8, 1,	5, 5, 3, 9, 8, 0, 0, 8, 1,
			0, 8, 8, 7, 3, 6, 2, 3, 0,	0, 8, 8, 7, 3, 6, 2, 3, 0,
			8, 2, 5, 2, 2, 3, 3, 2, 2,	8, 2, 5, 2, 2, 3, 3, 2, 2,
			9, 4, 4, 4, 1, 0, 8, 3, 4,	9, 4, 4, 4, 1, 0, 8, 3, 4,
				8, 9, 1, 1, 0, 8, 2, 6, 0,
			9, 3, 5, 6, 3, 8, 5, 4, 5,	9, 3, 5, 6, 3, 8, 5, 4, 5,
				8, 9, 0, 3, 9, 8, 9, 8, 3,
			5, 4, 5, 4, 3, 8, 0, 3, 4, 5, 1, 3, 4, 6, 7, 9, 6, 5,	5, 4, 5, 4, 3, 8, 0, 3, 4, 5, 1, 3, 4, 6, 7, 9, 6, 5,
				4, 1, 1, 6, 5, 2, 0, 7, 5,
			3, 7, 5, 1, 4, 4, 9, 6, 0,	3, 7, 5, 1, 4, 4, 9, 6, 0,
				7, 1, 7, 6, 6, 9, 5, 3, 9,
				2, 7, 6, 8, 5, 5, 3, 7, 2,
				4, 7, 5, 4, 0, 9, 4, 9, 3,
			8, 6, 5, 5, 5, 8, 2, 8, 8,	8, 6, 5, 5, 5, 8, 2, 8, 8,
			9, 5, 7, 4, 8, 4, 9, 3, 2,	9, 5, 7, 4, 8, 4, 9, 3, 2,
			2, 6, 0, 6, 4, 4, 5, 9, 4,	2, 6, 0, 6, 4, 4, 5, 9, 4,
			5, 9, 4, 3, 6, 5, 1, 1, 6,	5, 9, 4, 3, 6, 5, 1, 1, 6,
			2, 9, 1, 1, 0, 6, 0, 5, 5,	2, 9, 1, 1, 0, 6, 0, 5, 5,
			8, 5, 7, 4, 9, 6, 3, 5, 7,	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,	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,	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,	8, 1, 0, 7, 5, 2, 4, 9, 8,
			6, 0, 3, 2, 6, 4, 0, 5, 1,	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,	1, 0, 7, 0, 8, 5, 8, 0, 8,
			5, 6, 5, 4, 4, 2, 1, 6, 5,	5, 6, 5, 4, 4, 2, 1, 6, 5,
			5, 4, 7, 0, 3, 6, 2, 0, 8,	5, 4, 7, 0, 3, 6, 2, 0, 8,
			8, 6, 3, 1, 7, 0, 5, 4, 7,	8, 6, 3, 1, 7, 0, 5, 4, 7,
			7, 0, 9, 1, 5, 4, 4, 1, 9,	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,	9, 2, 2, 0, 5, 1, 8, 3, 6,
			7, 2, 7, 7, 0, 3, 5, 2, 6,	7, 2, 7, 7, 0, 3, 5, 2, 6,
			8, 4, 6, 2, 7, 0, 1, 5, 3,	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,	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,	4, 9, 6, 3, 3, 2, 7, 2, 8,
			2, 1, 0, 5, 1, 7, 1, 2, 7,	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,	8, 7, 0, 6, 7, 3, 4, 7, 4,

47 PM Singly Linked List (CCO8): Attempt review BK-Lins		
Test	Expected	Got
	1, 2, 9, 8, 8, 1, 7, 2, 2,	1, 2, 9, 8, 8, 1, 7, 2, 2,
	8, 3, 9, 9, 8, 8, 4, 8, 4,	8, 3, 9, 9, 8, 8, 4, 8, 4,
	6, 4, 1, 7, 3, 8, 4, 3, 1,	6, 4, 1, 7, 3, 8, 4, 3, 1,
	6, 4, 6, 1, 0, 1, 3, 8, 4,	6, 4, 6, 1, 0, 1, 3, 8, 4,
	3, 0, 7, 8, 1, 2, 6, 8, 4,	3, 0, 7, 8, 1, 2, 6, 8, 4,
	7, 4, 8, 8, 9, 3, 6, 6, 9,	7, 4, 8, 8, 9, 3, 6, 6, 9,
	4, 2, 4, 7, 3, 2, 3, 1, 6,	4, 2, 4, 7, 3, 2, 3, 1, 6,
	7, 0, 2, 4, 7, 9, 0, 0, 0,	7, 0, 2, 4, 7, 9, 0, 0, 0,
	4, 0, 2, 4, 0, 7, 8, 0, 5,	4, 0, 2, 4, 0, 7, 8, 0, 5,
	9, 2, 9, 5, 3, 3, 3, 5, 0,	9, 2, 9, 5, 3, 3, 3, 5, 0,
	9, 8, 7, 5, 9, 5, 0, 1, 2,	9, 8, 7, 5, 9, 5, 0, 1, 2,
	4, 7, 4, 9, 9, 4, 2, 9, 7,	4, 7, 4, 9, 9, 4, 2, 9, 7,
	8, 4, 4, 9, 7, 4, 0, 8, 3,	8, 4, 4, 9, 7, 4, 0, 8, 3,
	2, 8, 0, 8, 7, 1, 9, 4, 2,	2, 8, 0, 8, 7, 1, 9, 4, 2,
	5, 1, 2, 3, 9, 1, 2, 6, 0,	5, 1, 2, 3, 9, 1, 2, 6, 0,
	5, 0, 9, 1, 6, 7, 6, 6, 6,	5, 0, 9, 1, 6, 7, 6, 6, 6,
	1, 3, 8, 4, 1, 6, 7, 6, 3,	1, 3, 8, 4, 1, 6, 7, 6, 3,
	4, 3, 5, 1, 8, 0, 8, 2, 7,	4, 3, 5, 1, 8, 0, 8, 2, 7,
	2, 9, 4, 4, 5, 7, 0, 7, 6,	2, 9, 4, 4, 5, 7, 0, 7, 6,
	5, 3, 4, 1, 0, 4, 8, 2, 2,	5, 3, 4, 1, 0, 4, 8, 2, 2,
	0, 6, 4, 4, 0, 9, 8, 6, 5,	0, 6, 4, 4, 0, 9, 8, 6, 5,
	1, 8, 3, 9, 9, 4, 9, 5, 6,	1, 8, 3, 9, 9, 4, 9, 5, 6,
	2, 4, 8, 6, 7, 9, 2, 7, 7,	2, 4, 8, 6, 7, 9, 2, 7, 7,
	5, 4, 6, 2, 0, 6, 2, 3, 7,	5, 4, 6, 2, 0, 6, 2, 3, 7,
	8, 8, 0, 7, 8, 2, 9, 7, 2,	8, 8, 0, 7, 8, 2, 9, 7, 2,
	1, 4, 4, 8, 2, 0, 1, 9, 6,	1, 4, 4, 8, 2, 0, 1, 9, 6,
	5, 7, 5, 9, 6, 4, 4, 0, 7,	5, 7, 5, 9, 6, 4, 4, 0, 7,
	9, 7, 0, 9, 1, 6, 5, 2, 6,	9, 7, 0, 9, 1, 6, 5, 2, 6,
	2, 1, 7, 7, 5, 0, 9, 5, 0,	2, 1, 7, 7, 5, 0, 9, 5, 0,
	6, 2, 9, 0, 1, 4, 5, 4, 5,	6, 2, 9, 0, 1, 4, 5, 4, 5,
	7, 8, 9, 6, 7, 7, 4, 2, 7,	7, 8, 9, 6, 7, 7, 4, 2, 7,
	1, 0, 9, 2, 0, 8, 2, 9, 2,	1, 0, 9, 2, 0, 8, 2, 9, 2,
	9, 1, 4, 7, 2, 6, 6, 7, 4,	9, 1, 4, 7, 2, 6, 6, 7, 4,
	4, 4, 8, 5, 3, 7, 2, 7, 5,	4, 4, 8, 5, 3, 7, 2, 7, 5,
	2, 3, 0, 7, 5, 9, 8, 1, 2,	2, 3, 0, 7, 5, 9, 8, 1, 2,
	8, 1, 4, 0, 4, 7, 0, 0, 3,	8, 1, 4, 0, 4, 7, 0, 0, 3,
	7, 0, 6, 6, 3, 3, 7, 0, 4,	7, 0, 6, 6, 3, 3, 7, 0, 4,
	7, 4, 3, 9, 3, 2, 1, 2, 1,	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]	7, 1, 8]

		Test	Expected	Got	
	~	int arr[] = {2, 2, 6, 2, 6, 9, 8, 0, 5, 7, 5, 2,	[2, 2, 6, 2, 6, 9, 8, 0, 5,	[2, 2, 6, 2, 6, 9, 8, 0, 5,	~
		0, 3, 3, 5, 1, 0, 6, 0, 0, 4, 3, 8, 1, 0, 7, 7,	7, 5, 2, 0, 3, 3, 5, 1, 0,	7, 5, 2, 0, 3, 3, 5, 1, 0,	
		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,	6, 0, 0, 4, 3, 8, 1, 0, 7, 7, 9, 8, 7, 8, 5, 5, 2, 4,	6, 0, 0, 4, 3, 8, 1, 0, 7, 7, 9, 8, 7, 8, 5, 5, 2, 4,	
		5, 7, 0, 2, 2, 9, 8, 5, 8, 2, 7, 2, 2, 6, 1, 0,	4, 6, 1, 2, 8, 5, 8, 1, 6,	4, 6, 1, 2, 8, 5, 8, 1, 6,	
		4, 2, 2, 7, 6, 8, 5, 5, 7, 7, 7, 7, 0, 0, 6, 6,	3, 0, 6, 8, 7, 4, 0, 2, 2,	3, 0, 6, 8, 7, 4, 0, 2, 2,	
		6, 2, 7, 0, 9, 8, 7, 2, 9, 3, 0, 0, 4, 6, 2, 5,	5, 6, 7, 3, 3, 2, 5, 7, 0,	5, 6, 7, 3, 3, 2, 5, 7, 0,	
		1, 3, 1, 7, 2, 0, 9, 8, 4, 8, 5, 3, 7, 8, 8, 7,	2, 2, 9, 8, 5, 8, 2, 7, 2,	2, 2, 9, 8, 5, 8, 2, 7, 2,	
		1, 5, 4, 1, 5, 1, 1, 5, 8, 4, 2, 2, 6, 0, 7, 8,	2, 6, 1, 0, 4, 2, 2, 7, 6,	2, 6, 1, 0, 4, 2, 2, 7, 6,	
		6, 7, 9, 9, 0, 5, 6, 1, 4, 9, 9, 0, 3, 2, 6, 5, 6, 1, 7, 8, 8, 9, 0, 0, 2, 6, 9, 3, 7, 3, 7, 4,	8, 5, 5, 7, 7, 7, 7, 0, 0,	8, 5, 5, 7, 7, 7, 7, 0, 0, 6, 6, 6, 2, 7, 0, 9, 8, 7,	
		9, 1, 9, 2, 7, 8, 2, 8, 2, 7, 7, 9, 1, 4, 4, 0,	6, 6, 6, 2, 7, 0, 9, 8, 7, 2, 9, 3, 0, 0, 4, 6, 2, 5,	2, 9, 3, 0, 0, 4, 6, 2, 5,	
		4, 7, 8, 1, 3, 4, 5, 5, 1, 7, 3, 3, 4, 5, 8, 5,	1, 3, 1, 7, 2, 0, 9, 8, 4,	1, 3, 1, 7, 2, 0, 9, 8, 4,	
		8, 3, 5, 8, 2, 6, 1, 2, 1, 9, 4, 0, 7, 4, 7, 0,	8, 5, 3, 7, 8, 8, 7, 1, 5,	8, 5, 3, 7, 8, 8, 7, 1, 5,	
		1, 5, 6, 8, 8, 3, 1, 7, 4, 0, 9, 6, 2, 9, 6, 9,	4, 1, 5, 1, 1, 5, 8, 4, 2,	4, 1, 5, 1, 1, 5, 8, 4, 2,	
		6, 7, 6, 0, 1, 7, 6, 7, 4, 7, 9, 1, 0, 4, 7, 3,	2, 6, 0, 7, 8, 6, 7, 9, 9,	2, 6, 0, 7, 8, 6, 7, 9, 9,	
		0, 6, 5, 2, 6, 7, 4, 8, 4, 3, 7, 3, 2, 0, 1, 9,	0, 5, 6, 1, 4, 9, 9, 0, 3,	0, 5, 6, 1, 4, 9, 9, 0, 3,	
		7, 8, 8, 8, 3, 8, 7, 5, 0, 4, 0, 5, 2, 6, 2, 4, 2, 9, 8, 7, 0, 2, 9, 4, 0, 7, 4, 8, 3, 2, 1, 0,	2, 6, 5, 6, 1, 7, 8, 8, 9, 0, 0, 2, 6, 9, 3, 7, 3, 7,	2, 6, 5, 6, 1, 7, 8, 8, 9, 0, 0, 2, 6, 9, 3, 7, 3, 7,	
		8, 1, 2, 2, 0, 2, 1, 1, 3, 9, 4, 2, 4, 6, 3, 0,	4, 9, 1, 9, 2, 7, 8, 2, 8,	4, 9, 1, 9, 2, 7, 8, 2, 8,	
		1, 0, 1, 9, 3, 0, 8, 6, 5, 7, 9, 3, 2, 0, 8, 0,	2, 7, 7, 9, 1, 4, 4, 0, 4,	2, 7, 7, 9, 1, 4, 4, 0, 4,	
		6, 8, 0, 5, 1, 7, 6, 9, 8, 0, 7, 1, 6, 6, 3, 1,	7, 8, 1, 3, 4, 5, 5, 1, 7,	7, 8, 1, 3, 4, 5, 5, 1, 7,	
		2, 3, 1, 5, 6, 2, 9, 3, 2, 3, 0, 5, 5, 1, 6, 3,	3, 3, 4, 5, 8, 5, 8, 3, 5,	3, 3, 4, 5, 8, 5, 8, 3, 5,	
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		9, 3, 6, 5, 0, 3, 4, 5, 6, 2, 5, 6, 9, 9, 0, 3, 7, 0, 8, 8, 0, 3, 0, 4, 2, 7, 0, 9, 0, 6, 3, 9,	7, 4, 7, 0, 1, 5, 6, 8, 8, 3, 1, 7, 4, 0, 9, 6, 2, 9,	7, 4, 7, 0, 1, 5, 6, 8, 8, 3, 1, 7, 4, 0, 9, 6, 2, 9,	
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		0, 0, 8, 4, 4, 4, 9, 9, 4, 7, 6, 1, 9, 1, 0, 9,	7, 4, 7, 9, 1, 0, 4, 7, 3,	7, 4, 7, 9, 1, 0, 4, 7, 3,	
		8, 0, 6, 4, 4, 0, 6, 1, 8, 6, 3, 0, 2, 6, 6, 3,	0, 6, 5, 2, 6, 7, 4, 8, 4,	0, 6, 5, 2, 6, 7, 4, 8, 4,	
		0, 3, 3, 2, 1, 1, 5, 8, 0, 0, 0, 2, 3, 2, 0, 1,	3, 7, 3, 2, 0, 1, 9, 7, 8,	3, 7, 3, 2, 0, 1, 9, 7, 8,	
		3, 3, 6, 4, 9, 9, 7, 0, 5, 4, 5, 5, 9, 4, 5, 5,	8, 8, 3, 8, 7, 5, 0, 4, 0,	8, 8, 3, 8, 7, 5, 0, 4, 0,	
		3, 4, 2, 7, 8, 3, 6, 7, 0, 2, 4, 7, 0, 6, 9, 9, 1, 8, 3, 4, 0, 7, 6, 5, 2, 8, 0, 7, 7, 7, 7, 2,	5, 2, 6, 2, 4, 2, 9, 8, 7, 0, 2, 9, 4, 0, 7, 4, 8, 3,	5, 2, 6, 2, 4, 2, 9, 8, 7, 0, 2, 9, 4, 0, 7, 4, 8, 3,	
		4, 9, 3, 3, 5, 0, 1, 2, 8, 7, 1, 0, 3, 5, 0, 4,	2, 1, 0, 8, 1, 2, 2, 0, 2,	2, 1, 0, 8, 1, 2, 2, 0, 2,	
		6, 5, 2, 0, 0, 5, 7, 0, 4, 6, 4, 2, 9, 4, 8, 6,	1, 1, 3, 9, 4, 2, 4, 6, 3,	1, 1, 3, 9, 4, 2, 4, 6, 3,	
		7, 1, 3, 2, 1, 4, 8, 8, 1, 1, 6, 1, 6, 3, 0, 9,	0, 1, 0, 1, 9, 3, 0, 8, 6,	0, 1, 0, 1, 9, 3, 0, 8, 6,	
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		0, 9, 9, 3, 5, 4, 8, 2, 6, 1, 7, 8, 1, 8, 0, 2, 4, 3, 6, 4, 3, 5, 7, 7, 5, 8, 0, 8, 4, 6, 0, 5,	7, 1, 6, 6, 3, 1, 2, 3, 1, 5, 6, 2, 9, 3, 2, 3, 0, 5,	7, 1, 6, 6, 3, 1, 2, 3, 1, 5, 6, 2, 9, 3, 2, 3, 0, 5,	
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		8, 9, 6, 0, 4, 2, 0, 8, 2, 8, 8, 7, 0, 4, 4, 9,	4, 4, 9, 9, 4, 7, 6, 1, 9,	4, 4, 9, 9, 4, 7, 6, 1, 9,	
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		1, 3, 7, 8, 0, 8, 8, 6, 1, 1, 1, 0, 6, 8, 8, 4,	6, 1, 8, 6, 3, 0, 2, 6, 6,	6, 1, 8, 6, 3, 0, 2, 6, 6,	
		1, 8, 0, 4, 1, 2, 1, 1, 6, 3, 5, 8, 2, 0, 5, 6,	3, 0, 3, 3, 2, 1, 1, 5, 8,	3, 0, 3, 3, 2, 1, 1, 5, 8,	
		8, 5, 9, 5, 1, 0, 0, 6, 7, 6, 0, 0, 0, 4, 9, 6, 0, 4, 8, 2, 9, 1, 3, 8, 2, 5, 5, 3, 9, 1, 6, 1,	0, 0, 0, 2, 3, 2, 0, 1, 3, 3, 6, 4, 9, 9, 7, 0, 5, 4,	0, 0, 0, 2, 3, 2, 0, 1, 3, 3, 6, 4, 9, 9, 7, 0, 5, 4,	
		8, 8, 4, 8, 8, 0, 8, 9, 9, 3, 7, 7, 6, 0, 8, 1,	5, 5, 9, 4, 5, 5, 3, 4, 2,	5, 5, 9, 4, 5, 5, 3, 4, 2,	
		9, 1, 0, 3, 5, 4, 9, 1, 5, 6, 8, 6, 3, 4, 6, 3,	7, 8, 3, 6, 7, 0, 2, 4, 7,	7, 8, 3, 6, 7, 0, 2, 4, 7,	
		3, 3, 8, 1, 6, 5, 0, 8, 4, 1, 6, 9, 1, 8, 0, 5,	0, 6, 9, 9, 1, 8, 3, 4, 0,	0, 6, 9, 9, 1, 8, 3, 4, 0,	
		5, 8, 6, 1, 8, 7, 7, 9, 6, 8, 4, 7, 5, 5, 0, 8,	7, 6, 5, 2, 8, 0, 7, 7, 7,	7, 6, 5, 2, 8, 0, 7, 7, 7,	
		8, 2, 1, 6, 3, 0, 2, 8, 9, 7, 7, 6, 5, 8, 3, 3,	7, 2, 4, 9, 3, 3, 5, 0, 1,	7, 2, 4, 9, 3, 3, 5, 0, 1,	
		9, 3, 9, 5, 1, 7, 1, 1, 8, 1, 7, 8, 6, 1, 0, 3, 4, 1, 7, 0, 4, 1, 6, 2, 2, 1, 7, 7, 0, 0, 2, 5,	2, 8, 7, 1, 0, 3, 5, 0, 4, 6, 5, 2, 0, 0, 5, 7, 0, 4,	2, 8, 7, 1, 0, 3, 5, 0, 4, 6, 5, 2, 0, 0, 5, 7, 0, 4,	
		4, 9, 8, 1, 3, 1, 1, 3, 2, 7, 8, 0, 9, 3, 4, 3,	6, 4, 2, 9, 4, 8, 6, 7, 1,	6, 4, 2, 9, 4, 8, 6, 7, 1,	
		2, 9, 8, 7, 2, 5, 4, 0, 4, 8, 5, 3, 9, 3, 9, 6,	3, 2, 1, 4, 8, 8, 1, 1, 6,	3, 2, 1, 4, 8, 8, 1, 1, 6,	
		2, 7, 1, 7, 7, 5, 6, 1, 7, 7, 7, 8, 4, 6, 0, 2,	1, 6, 3, 0, 9, 2, 5, 1, 8,	1, 6, 3, 0, 9, 2, 5, 1, 8,	
- 1		I and the second	I .	· ·	1

10.47		Enked List (CC06). Attempt review	
	Test	Expected	Got
	3, 5, 8, 0, 1, 4, 9, 6, 1, 7, 5, 3, 3, 8, 2, 6,	8, 2, 9, 4, 0, 0, 1, 8, 4,	8, 2, 9, 4, 0, 0, 1, 8, 4,
	2, 7, 3, 0, 1, 3, 8, 7, 0, 9, 7, 4, 4, 4, 6, 0,	0, 4, 2, 6, 0, 2, 8, 0, 2, 8, 4, 5, 6, 1, 5, 8, 7, 3,	0, 4, 2, 6, 0, 2, 8, 0, 2, 8, 4, 5, 6, 1, 5, 8, 7, 3,
	8, 2, 6, 9, 9, 5, 3, 7, 9, 4, 8, 8, 6, 1, 7, 9, 4, 8, 0, 0, 2, 5, 8, 6, 3, 3, 1, 2, 5, 5, 2, 9,	8, 0, 9, 9, 3, 5, 4, 8, 2,	8, 0, 9, 9, 3, 5, 4, 8, 2,
	4, 8, 8, 6, 9, 1, 3, 9, 5, 3, 0, 7, 2, 1, 2, 4,	6, 1, 7, 8, 1, 8, 0, 2, 4,	6, 1, 7, 8, 1, 8, 0, 2, 4,
	4, 6, 0, 2, 8, 7, 1, 6, 7, 4, 5, 1, 9, 4, 4, 7,	3, 6, 4, 3, 5, 7, 7, 5, 8,	3, 6, 4, 3, 5, 7, 7, 5, 8,
	0, 3, 6, 0, 0, 7, 8, 0, 4, 5, 7, 7, 6, 5, 0, 3,	0, 8, 4, 6, 0, 5, 4, 9, 1,	0, 8, 4, 6, 0, 5, 4, 9, 1,
	1, 0, 7, 0, 5, 0, 3, 1, 2, 1, 9, 3, 4, 4, 0, 0,	3, 8, 8, 2, 6, 4, 0, 0, 1,	3, 8, 8, 2, 6, 4, 0, 0, 1,
	2, 9, 6, 3, 8, 9, 6, 7, 6, 9, 5, 3, 2, 1, 3, 0,	0, 8, 6, 0, 0, 9, 3, 3, 2,	0, 8, 6, 0, 0, 9, 3, 3, 2,
	2, 7, 9, 8, 8, 5, 4, 4, 2, 6, 5, 4, 2, 0, 0, 2, 7, 8, 8, 7, 9, 7, 9, 8, 8, 2, 6, 0, 9, 0, 2, 6,	1, 3, 4, 0, 7, 1, 0, 2, 3, 1, 2, 3, 4, 6, 1, 5, 7, 3,	1, 3, 4, 0, 7, 1, 0, 2, 3, 1, 2, 3, 4, 6, 1, 5, 7, 3,
	1, 9, 2, 9, 2, 5, 8, 6, 8, 0, 1, 5, 0, 6, 9, 7,	6, 3, 2, 2, 4, 4, 0, 8, 1,	6, 3, 2, 2, 4, 4, 0, 8, 1,
	7, 2, 1, 5, 6, 1, 7, 0, 0, 7, 0, 0, 2, 8, 3, 3,	6, 8, 1, 4, 2, 9, 6, 2, 7,	6, 8, 1, 4, 2, 9, 6, 2, 7,
	2, 9, 8, 9, 8, 9, 9, 1, 7, 6, 2, 5, 1, 2, 5, 7,	9, 6, 8, 0, 2, 7, 6, 8, 3,	9, 6, 8, 0, 2, 7, 6, 8, 3,
	0, 8, 2, 8, 7, 7, 6, 1, 2, 8, 2, 5, 8, 0, 5, 7,	9, 1, 1, 3, 3, 0, 3, 4, 9,	9, 1, 1, 3, 3, 0, 3, 4, 9,
	0, 7, 0, 2, 5, 5, 0, 3, 1, 8, 5, 7, 6, 8, 0, 0,	3, 4, 2, 7, 7, 2, 5, 1, 4,	3, 4, 2, 7, 7, 2, 5, 1, 4,
	5, 1, 9, 0, 1, 3, 3, 3, 5, 5, 0, 6, 8, 5, 4, 7,	8, 0, 4, 0, 7, 2, 8, 8, 7,	8, 0, 4, 0, 7, 2, 8, 8, 7,
	7, 8, 0, 3, 5, 9, 2, 8, 7, 8, 4, 5, 7, 6, 4, 9, 7, 6, 1, 1, 1, 6, 0, 1, 0, 7, 5, 1, 9, 9, 2, 7,	1, 4, 8, 6, 6, 6, 3, 2, 1, 9, 5, 9, 6, 7, 4, 1, 6, 3,	1, 4, 8, 6, 6, 6, 3, 2, 1, 9, 5, 9, 6, 7, 4, 1, 6, 3,
	4, 9, 9,snip 2, 6, 9, 2, 8, 3, 8, 0, 6,	6, 3, 8, 3, 6, 0, 0, 2, 7,	6, 3, 8, 3, 6, 0, 0, 2, 7,
	8, 3, 5, 0, 9, 6, 0, 7, 2, 5, 0, 3, 2, 8, 8, 2,	3, 9, 4, 2, 1, 6, 4, 6, 8,	3, 9, 4, 2, 1, 6, 4, 6, 8,
	5, 5, 3, 6, 9, 4, 9, 2, 2, 9, 6, 6, 7, 5, 7, 4,	9, 6, 0, 4, 2, 0, 8, 2, 8,	9, 6, 0, 4, 2, 0, 8, 2, 8,
	6, 9, 8, 9, 7, 9, 2, 7, 0, 4, 9, 0, 6, 2, 8, 1,	8, 7, 0, 4, 4, 9, 3, 4, 2,	8, 7, 0, 4, 4, 9, 3, 4, 2,
	3, 0, 3, 4, 7, 0, 7, 2, 1, 7, 4, 2, 0, 6, 5, 6,	9, 1, 0, 1, 0, 4, 5, 6, 7,	9, 1, 0, 1, 0, 4, 5, 6, 7,
	3, 6, 6, 9, 1, 3, 0, 8, 4, 9, 7, 1, 6, 8, 4, 9, 8, 3, 4, 0, 2, 2, 4, 6, 2, 7, 9, 0, 3, 8, 0, 6,	7, 1, 5, 4, 1, 3, 7, 8, 0, 8, 8, 6, 1, 1, 1, 0, 6, 8,	7, 1, 5, 4, 1, 3, 7, 8, 0, 8, 8, 6, 1, 1, 1, 0, 6, 8,
	0, 6, 7, 7, 9, 6, 0, 4, 7, 8, 4, 4, 2, 7, 0, 0,	8, 4, 1, 8, 0, 4, 1, 2, 1,	8, 4, 1, 8, 0, 4, 1, 2, 1,
	8, 0, 8, 8, 5, 7, 6, 2, 8, 5, 5, 3, 7, 1, 2, 8,	1, 6, 3, 5, 8, 2, 0, 5, 6,	1, 6, 3, 5, 8, 2, 0, 5, 6,
	8, 4, 1, 8, 1, 8, 7, 8, 4, 0, 1, 6, 3, 0, 2, 3,	8, 5, 9, 5, 1, 0, 0, 6, 7,	8, 5, 9, 5, 1, 0, 0, 6, 7,
	6, 0, 8, 2, 0, 7, 8, 7, 1, 3, 3, 5, 0, 0, 1, 5,	6, 0, 0, 0, 4, 9, 6, 0, 4,	6, 0, 0, 0, 4, 9, 6, 0, 4,
	2, 7, 5, 2, 5, 1, 6, 4, 9, 9, 7, 2, 1, 3, 3, 3,	8, 2, 9, 1, 3, 8, 2, 5, 5,	8, 2, 9, 1, 3, 8, 2, 5, 5,
	2, 2, 5, 9, 0, 7, 0, 0, 1, 0, 6, 2, 1, 1, 9, 4,	3, 9, 1, 6, 1, 8, 8, 4, 8,	3, 9, 1, 6, 1, 8, 8, 4, 8,
	3, 3, 4, 9, 9, 5, 7, 2, 3, 7, 8, 4, 2, 4, 0, 0, 7, 5, 7, 1, 9, 5, 7, 7, 6, 0, 6, 7, 8, 5, 9, 9,	8, 0, 8, 9, 9, 3, 7, 7, 6, 0, 8, 1, 9, 1, 0, 3, 5, 4,	8, 0, 8, 9, 9, 3, 7, 7, 6, 0, 8, 1, 9, 1, 0, 3, 5, 4,
	4, 9, 2, 6, 8, 4, 1, 1, 8, 1, 0, 2, 4, 6, 3, 0,	9, 1, 5, 6, 8, 6, 3, 4, 6,	9, 1, 5, 6, 8, 6, 3, 4, 6,
	8, 9, 1, 6, 6, 2, 3, 6, 6, 3, 9, 8, 7, 5, 5, 8,	3, 3, 3, 8, 1, 6, 5, 0, 8,	3, 3, 3, 8, 1, 6, 5, 0, 8,
	3, 8, 4, 1, 6, 6, 6, 3, 5, 4, 3, 6, 2, 3, 5, 3,	4, 1, 6, 9, 1, 8, 0, 5, 5,	4, 1, 6, 9, 1, 8, 0, 5, 5,
	4, 1, 3, 1, 0, 1, 9, 7, 8, 7, 2, 8, 5, 6, 5, 6,	8, 6, 1, 8, 7, 7, 9, 6, 8,	8, 6, 1, 8, 7, 7, 9, 6, 8,
	3, 6, 4, 8, 0, 0, 6, 7, 2, 4, 5, 5, 2, 9, 6, 7,	4, 7, 5, 5, 0, 8, 8, 2, 1,	4, 7, 5, 5, 0, 8, 8, 2, 1,
	0, 8, 7, 9, 1, 8, 9, 6, 7, 7, 8, 5, 5, 4, 3, 7, 1, 1, 6, 3, 0, 9, 7, 7, 8, 7, 1, 5, 8, 6, 0, 1,	6, 3, 0, 2, 8, 9, 7, 7, 6, 5, 8, 3, 3, 9, 3, 9, 5, 1,	6, 3, 0, 2, 8, 9, 7, 7, 6, 5, 8, 3, 3, 9, 3, 9, 5, 1,
	4, 6, 1, 6, 4, 2, 1, 3, 0, 9, 5, 3, 2, 3, 5, 1,	7, 1, 1, 8, 1, 7, 8, 6, 1,	7, 1, 1, 8, 1, 7, 8, 6, 1,
	6, 0, 4, 5, 0, 9, 5, 3, 2, 6, 4, 0, 4, 5, 1, 4,	0, 3, 4, 1, 7, 0, 4, 1, 6,	0, 3, 4, 1, 7, 0, 4, 1, 6,
	7, 5, 1, 6, 9, 6, 6, 0, 3, 1, 6, 9, 9, 6, 5, 1,	2, 2, 1, 7, 7, 0, 0, 2, 5,	2, 2, 1, 7, 7, 0, 0, 2, 5,
	3, 6, 4, 7, 3, 9, 6, 6, 8, 8, 2, 9, 1, 0, 8, 6,	4, 9, 8, 1, 3, 1, 1, 3, 2,	4, 9, 8, 1, 3, 1, 1, 3, 2,
	7, 4, 1, 6, 1, 4, 7, 3, 5, 3, 1, 3, 8, 0, 1, 9, 7, 6, 4, 9, 8, 6, 0, 0, 3, 6, 0, 0, 3, 4, 7, 5,	7, 8, 0, 9, 3, 4, 3, 2, 9, 8, 7, 2, 5, 4, 0, 4, 8, 5,	7, 8, 0, 9, 3, 4, 3, 2, 9, 8, 7, 2, 5, 4, 0, 4, 8, 5,
	5, 8, 5, 2, 4, 5, 2, 4, 5, 4, 8, 6, 9, 2, 4, 9,	3, 9, 3, 9, 6, 2, 7, 1, 7,	3, 9, 3, 9, 6, 2, 7, 1, 7,
	7, 4, 6, 1, 3, 0, 8, 6, 1, 1, 2, 6, 8, 4, 9, 4,	7, 5, 6, 1, 7, 7, 7, 8, 4,	7, 5, 6, 1, 7, 7, 7, 8, 4,
	3, 6, 5, 0, 3, 6, 4, 1, 8, 7, 7, 2, 3, 6, 2, 8,	6, 0, 2, 3, 5, 8, 0, 1, 4,	6, 0, 2, 3, 5, 8, 0, 1, 4,
	4, 3, 1, 7, 8, 2, 4, 0, 7, 7, 4, 9, 8, 5, 8, 1,	9, 6, 1, 7, 5, 3, 3, 8, 2,	9, 6, 1, 7, 5, 3, 3, 8, 2,
	0, 0, 9, 6, 3, 1, 5, 9, 9, 3, 2, 7, 8, 7, 1, 8,	6, 2, 7, 3, 0, 1, 3, 8, 7,	6, 2, 7, 3, 0, 1, 3, 8, 7,
	1, 2, 7, 4, 2, 4, 9, 2, 3, 8, 8, 5, 0, 1, 3, 0, 3, 8, 6, 5, 1, 8, 1, 3, 8, 6, 5, 6, 5, 4, 8, 3,	0, 9, 7, 4, 4, 4, 6, 0, 8, 2, 6, 9, 9, 5, 3, 7, 9, 4,	0, 9, 7, 4, 4, 4, 6, 0, 8, 2, 6, 9, 9, 5, 3, 7, 9, 4,
	2, 3, 5, 0, 1, 9, 0, 9, 2, 3, 5, 3, 0, 4, 0, 8,	8, 8, 6, 1, 7, 9, 4, 8, 0,	8, 8, 6, 1, 7, 9, 4, 8, 0,
	3, 4, 2, 6, 4, 4, 6, 1, 4, 0, 6, 9, 7, 7, 7, 6,	0, 2, 5, 8, 6, 3, 3, 1, 2,	0, 2, 5, 8, 6, 3, 3, 1, 2,
	6, 1, 6, 1, 8, 2, 3, 9, 5, 7, 3, 9, 9, 6, 7, 9,	5, 5, 2, 9, 4, 8, 8, 6, 9,	5, 5, 2, 9, 4, 8, 8, 6, 9,
	3, 6, 7, 7, 9, 2, 0, 7, 1, 6, 7, 8, 3, 8, 8, 4,	1, 3, 9, 5, 3, 0, 7, 2, 1,	1, 3, 9, 5, 3, 0, 7, 2, 1,
	6, 8, 0, 4, 2, 9, 0, 4, 2, 7, 9, 6, 9, 9, 1, 5,	2, 4, 4, 6, 0, 2, 8, 7, 1,	2, 4, 4, 6, 0, 2, 8, 7, 1,
	9, 4, 1, 4, 5, 5, 1, 0, 1, 3, 9, 6, 0, 4, 5, 5, 7, 1, 7, 1, 4, 5, 6, 1, 7, 3, 9, 0, 9, 5, 9, 5,	6, 7, 4, 5, 1, 9, 4, 4, 7, 0, 3, 6, 0, 0, 7, 8, 0, 4,	6, 7, 4, 5, 1, 9, 4, 4, 7,
	6, 2, 0, 7, 4, 0, 1, 6, 7, 3, 2, 7, 0, 6, 3, 1,	0, 3, 6, 0, 0, 7, 8, 0, 4, 5, 7, 7, 6, 5, 0, 3, 1, 0,	0, 3, 6, 0, 0, 7, 8, 0, 4, 5, 7, 7, 6, 5, 0, 3, 1, 0,
	4, 3, 4, 3, 9, 9, 6, 0, 7, 9, 4, 3, 8, 1, 5, 4,	7, 0, 5, 0, 3, 1, 2, 1, 9,	7, 0, 5, 0, 3, 1, 2, 1, 9,
	3, 2, 3, 1, 9, 9, 2, 1, 6, 9, 8, 1, 6, 2, 8, 4,	3, 4, 4, 0, 0, 2, 9, 6, 3,	3, 4, 4, 0, 0, 2, 9, 6, 3,

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

, 10	. 77 1 1	vi Olligiy L	inked List (0000). Attempt review	DIV-LIVIO
		Test	Expected	Got
ŀ			2, 1, 9, 4, 8, 9, 8, 9, 1,	2, 1, 9, 4, 8, 9, 8, 9, 1,
				1, 5, 7, 8, 0, 0, 1, 1, 2,
				7, 8, 9, 7, 2, 3, 2, 8, 9,
			5, 1, 8, 9, 9, 5, 2, 2, 0,	5, 1, 8, 9, 9, 5, 2, 2, 0,
				6, 5, 6, 9, 5, 2, 6, 2, 3,
				7, 4, 2, 6, 1, 9, 8, 0, 0,
				4, 7, 2, 1, 6, 1, 8, 6, 7,
				1, 2, 6, 1, 4, 1, 6, 2, 1,
				9, 5, 0, 0, 4, 6, 2, 5, 3,
			3, 0, 5, 0, 2, 2, 7, 6, 1,	3, 0, 5, 0, 2, 2, 7, 6, 1,
				1, 3, 9, 5, 6, 0, 3, 4, 2,
				8, 3, 7, 2, 9, 6, 1, 8, 3,
				1, 3, 8, 5, 1, 9, 0, 0, 4,
				3, 4, 6, 4, 6, 7, 8, 5, 2,
				5, 6, 1, 6, 8, 5, 2, 1, 1,
				0, 4, 7, 0, 4, 9, 1, 4, 2,
				1, 4, 4, 5, 7, 2, 1, 2, 5,
				3, 8, 0, 6, 6, 0, 5, 2, 7,
			5, 7, 5, 7, 9, 0, 8, 3, 3,	5, 7, 5, 7, 9, 0, 8, 3, 3,
				4, 0, 3, 8, 4, 1, 4, 0, 8,
				4, 8, 3, 1, 2, 5, 6, 8, 2,
			9, 2, 6, 5, 5, 5, 1, 0, 5,	9, 2, 6, 5, 5, 5, 1, 0, 5,
				1, 9, 6, 2, 2, 3, 0, 7, 6,
				8, 7, 7, 8, 2, 0, 9, 3, 1,
			5, 3, 1, 4, 6, 7, 5, 9, 9,	5, 3, 1, 4, 6, 7, 5, 9, 9,
			3, 8, 5, 2, 3, 4, 0, 5, 9,	3, 8, 5, 2, 3, 4, 0, 5, 9,
				1, 7, 2, 9, 8, 2, 0, 7, 0,
				9, 0, 2, 6, 6, 8, 5, 5, 6,
				0, 1, 8, 0, 9, 2, 4, 9, 8,
				3, 6, 3, 9, 2, 2, 6, 5, 7,
			3, 5, 0, 6, 6, 8, 4, 6, 7,	3, 5, 0, 6, 6, 8, 4, 6, 7,
				8, 6, 9, 4, 1, 3, 2, 1, 8,
				0, 0, 7, 2, 1, 5, 3, 4, 3,
				2, 4, 1, 3, 0, 3, 9, 8, 6,
			3, 5, 5, 9, 9, 3, 1, 2, 4,	3, 5, 5, 9, 9, 3, 1, 2, 4,
				7, 4, 0, 3, 7, 8, 4, 3, 4,
				4, 3, 0, 5, 8, 0, 8, 2, 6,
			0, 4, 0, 3, 4, 4, 8, 1, 2,	0, 4, 0, 3, 4, 4, 8, 1, 2,
			0, 0, 0, 1, 9, 2, 4, 6, 6,	0, 0, 0, 1, 9, 2, 4, 6, 6,
			9, 4, 8, 9, 5, 2, 2, 4, 9,	9, 4, 8, 9, 5, 2, 2, 4, 9,
			8, 6, 8, 5, 9, 5, 8, 1, 0,	8, 6, 8, 5, 9, 5, 8, 1, 0,
			5, 1, 4, 4, 6, 3, 6, 5, 2,	5, 1, 4, 4, 6, 3, 6, 5, 2,
				6, 2, 0, 7, 4, 1, 2, 7, 3,
			4, 4, 9, 3, 9, 2, 9, 1, 3,	4, 4, 9, 3, 9, 2, 9, 1, 3,
				0, 4, 1, 0, 2, 4, 9, 3, 3,
				1, 3, 0, 8, 8, 7, 4, 5, 9,
				9, 9, 6, 6, 4, 4, 2, 5, 0,
				1, 0, 8, 9, 0, 4, 8, 5, 6,
				8, 1, 0, 9, 1, 8, 2, 6, 1,
			0, 9, 9, 2, 5, 9, 4, 1, 7,	0, 9, 9, 2, 5, 9, 4, 1, 7,
			5, 6, 5, 4, 3, 9, 3, 9, 4,	5, 6, 5, 4, 3, 9, 3, 9, 4,
				1, 6, 7, 6, 3, 1, 6, 6, 5,
			2, 5, 9, 7, 6, 9, 3, 3, 1,	2, 5, 9, 7, 6, 9, 3, 3, 1,
				2, 5, 0, 2, 5, 6, 7, 2, 3,
			0, 7, 9, 0, 2, 2, 9, 5, 9,	0, 7, 9, 0, 2, 2, 9, 5, 9,
			1, 9, 6, 1, 7, 4, 1, 6, 7,	1, 9, 6, 1, 7, 4, 1, 6, 7,
			0, 5, 9, 8, 1, 2, 2, 5, 6,	0, 5, 9, 8, 1, 2, 2, 5, 6,
			3, 3, 4, 8, 8, 1, 0, 5, 2,	3, 3, 4, 8, 8, 1, 0, 5, 2,
				7, 1, 6, 7, 3, 1, 1, 8, 9,
				7, 6, 3, 3, 4, 0, 0, 9, 2,
				6, 2, 4, 2, 2, 1, 3, 6, 6,
				6, 8, 5, 8, 8, 1, 3, 6, 9,
				6, 5, 2, 3, 0, 2, 2, 1, 0,
				1, 9, 1, 4, 4, 9, 3, 2, 3,
			_, _, _, ., ¬, ~, ~, ~, ~, ~, ~,	_, ~, -, ., ~, ~, ~, ~, ~, ~,

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

	Test	Expected	Got	
~	int arr[] = {9, 9, 7, 1, 0, 8, 1, 7, 1, 6, 9, 1,	[9, 9, 7, 1, 0, 8, 1, 7, 1,	[9, 9, 7, 1, 0, 8, 1, 7, 1,	~
	8, 4, 3, 4, 8, 5, 7, 0, 0, 0, 2, 1, 9, 5, 5, 3,	6, 9, 1, 8, 4, 3, 4, 8, 5,	6, 9, 1, 8, 4, 3, 4, 8, 5,	
	3, 4, 2, 0, 1, 4, 6, 2, 9, 0, 9, 9, 0, 2, 7, 3, 5, 9, 8, 2, 5, 4, 3, 4, 6, 3, 8, 1, 2, 0, 3, 3,	7, 0, 0, 0, 2, 1, 9, 5, 5, 3, 3, 4, 2, 0, 1, 4, 6, 2,	7, 0, 0, 0, 2, 1, 9, 5, 5, 3, 3, 4, 2, 0, 1, 4, 6, 2,	
	9, 6, 3, 4, 5, 4, 9, 3, 6, 5, 2, 5, 0, 1, 3, 3,	9, 0, 9, 9, 0, 2, 7, 3, 5,	9, 0, 9, 9, 0, 2, 7, 3, 5,	
	0, 5, 9, 2, 6, 5, 4, 9, 6, 4, 7, 5, 0, 3, 4, 3,	9, 8, 2, 5, 4, 3, 4, 6, 3,	9, 8, 2, 5, 4, 3, 4, 6, 3,	
	9, 2, 7, 5, 5, 5, 2, 7, 5, 3, 4, 9, 3, 5, 1, 1,	8, 1, 2, 0, 3, 3, 9, 6, 3,	8, 1, 2, 0, 3, 3, 9, 6, 3,	
	4, 1, 9, 9, 0, 8, 4, 6, 4, 2, 1, 0, 5, 4, 0, 4,	4, 5, 4, 9, 3, 6, 5, 2, 5,	4, 5, 4, 9, 3, 6, 5, 2, 5,	
	4, 0, 0, 8, 4, 5, 3, 7, 0, 7, 1, 6, 0, 2, 8, 6, 8, 1, 6, 5, 6, 5, 7, 7, 8, 1, 7, 3, 1, 7, 1, 9,	0, 1, 3, 3, 0, 5, 9, 2, 6, 5, 4, 9, 6, 4, 7, 5, 0, 3,	0, 1, 3, 3, 0, 5, 9, 2, 6, 5, 4, 9, 6, 4, 7, 5, 0, 3,	
	2, 4, 6, 2, 1, 8, 8, 4, 0, 9, 0, 8, 8, 6, 6, 8,	4, 3, 9, 2, 7, 5, 5, 5, 2,	4, 3, 9, 2, 7, 5, 5, 5, 2,	
	8, 2, 2, 1, 2, 2, 8, 7, 8, 4, 3, 6, 4, 1, 0, 9,	7, 5, 3, 4, 9, 3, 5, 1, 1,	7, 5, 3, 4, 9, 3, 5, 1, 1,	
	1, 4, 0, 6, 1, 6, 1, 7, 6, 1, 9, 6, 5, 5, 9, 4,	4, 1, 9, 9, 0, 8, 4, 6, 4,	4, 1, 9, 9, 0, 8, 4, 6, 4,	
	7, 8, 8, 5, 4, 9, 2, 7, 1, 1, 6, 9, 6, 9, 8, 7,	2, 1, 0, 5, 4, 0, 4, 4, 0,	2, 1, 0, 5, 4, 0, 4, 4, 0,	
	8, 8, 0, 3, 0, 8, 6, 0, 3, 3, 5, 1, 9, 4, 5, 2, 8, 6, 3, 0, 3, 9, 5, 2, 4, 2, 4, 1, 4, 1, 3, 7,	0, 8, 4, 5, 3, 7, 0, 7, 1, 6, 0, 2, 8, 6, 8, 1, 6, 5,	0, 8, 4, 5, 3, 7, 0, 7, 1, 6, 0, 2, 8, 6, 8, 1, 6, 5,	
	4, 0, 0, 1, 2, 8, 4, 8, 1, 1, 6, 3, 8, 9, 7, 7,	6, 5, 7, 7, 8, 1, 7, 3, 1,	6, 5, 7, 7, 8, 1, 7, 3, 1,	
	5, 8, 1, 8, 3, 4, 9, 5, 5, 1, 3, 4, 9, 2, 3, 8,	7, 1, 9, 2, 4, 6, 2, 1, 8,	7, 1, 9, 2, 4, 6, 2, 1, 8,	
	9, 1, 9, 7, 5, 7, 0, 0, 4, 9, 8, 9, 4, 3, 2, 4,	8, 4, 0, 9, 0, 8, 8, 6, 6,	8, 4, 0, 9, 0, 8, 8, 6, 6,	
	9, 3, 4, 5, 6, 8, 6, 7, 9, 0, 4, 5, 6, 2, 4, 8, 4, 5, 2, 5, 7, 4, 5, 3, 1, 5, 2, 7, 9, 7, 8, 1,	8, 8, 2, 2, 1, 2, 2, 8, 7, 8, 4, 3, 6, 4, 1, 0, 9, 1,	8, 8, 2, 2, 1, 2, 2, 8, 7, 8, 4, 3, 6, 4, 1, 0, 9, 1,	
	2, 7, 0, 5, 4, 9, 5, 8, 3, 9, 3, 9, 5, 9, 9, 6,	4, 0, 6, 1, 6, 1, 7, 6, 1,	4, 0, 6, 1, 6, 1, 7, 6, 1,	
	6, 8, 9, 6, 8, 5, 5, 4, 1, 1, 6, 4, 5, 9, 7, 5,	9, 6, 5, 5, 9, 4, 7, 8, 8,	9, 6, 5, 5, 9, 4, 7, 8, 8,	
	5, 0, 7, 7, 8, 3, 0, 1, 1, 9, 8, 5, 0, 7, 1, 2,	5, 4, 9, 2, 7, 1, 1, 6, 9,	5, 4, 9, 2, 7, 1, 1, 6, 9,	
	5, 8, 2, 2, 4, 8, 5, 6, 5, 1, 5, 8, 6, 3, 9, 2,	6, 9, 8, 7, 8, 8, 0, 3, 0,	6, 9, 8, 7, 8, 8, 0, 3, 0,	
	7, 0, 3, 5, 3, 2, 1, 0, 8, 4, 0, 8, 8, 0, 7, 5, 6, 3, 7, 4, 5, 2, 7, 6, 9, 4, 5, 0, 2, 6, 9, 3,	8, 6, 0, 3, 3, 5, 1, 9, 4, 5, 2, 8, 6, 3, 0, 3, 9, 5,	8, 6, 0, 3, 3, 5, 1, 9, 4, 5, 2, 8, 6, 3, 0, 3, 9, 5,	
	2, 5, 6, 7, 5, 4, 9, 5, 4, 9, 9, 4, 8, 0, 8, 6,	2, 4, 2, 4, 1, 4, 1, 3, 7,	2, 4, 2, 4, 1, 4, 1, 3, 7,	
	0, 5, 4, 1, 7, 2, 7, 4, 1, 6, 8, 9, 1, 7, 7, 0,	4, 0, 0, 1, 2, 8, 4, 8, 1,	4, 0, 0, 1, 2, 8, 4, 8, 1,	
	5, 3, 3, 5, 4, 1, 0, 5, 2, 3, 3, 2, 3, 8, 3, 9,	1, 6, 3, 8, 9, 7, 7, 5, 8,	1, 6, 3, 8, 9, 7, 7, 5, 8,	
	1, 6, 8, 3, 4, 8, 0, 3, 3, 9, 1, 4, 5, 0, 7, 8,	1, 8, 3, 4, 9, 5, 5, 1, 3,	1, 8, 3, 4, 9, 5, 5, 1, 3,	
	7, 4, 3, 0, 4, 2, 3, 1, 5, 0, 1, 8, 5, 0, 5, 3, 6, 9, 2, 7, 6, 7, 2, 5, 5, 5, 8, 8, 4, 2, 2, 0,	4, 9, 2, 3, 8, 9, 1, 9, 7, 5, 7, 0, 0, 4, 9, 8, 9, 4,	4, 9, 2, 3, 8, 9, 1, 9, 7, 5, 7, 0, 0, 4, 9, 8, 9, 4,	
	8, 1, 7, 3, 9, 9, 3, 0, 3, 4, 5, 2, 4, 5, 9, 2,	3, 2, 4, 9, 3, 4, 5, 6, 8,	3, 2, 4, 9, 3, 4, 5, 6, 8,	
	0, 0, 0, 9, 7, 5, 7, 1, 7, 6, 4, 2, 3, 3, 5, 9,	6, 7, 9, 0, 4, 5, 6, 2, 4,	6, 7, 9, 0, 4, 5, 6, 2, 4,	
	6, 6, 1, 3, 9, 0, 5, 3, 5, 6, 6, 7, 0, 6, 4, 1,	8, 4, 5, 2, 5, 7, 4, 5, 3,	8, 4, 5, 2, 5, 7, 4, 5, 3,	
	1, 5, 8, 4, 8, 0, 5, 9, 9, 6, 7, 7, 9, 5, 8, 8,	1, 5, 2, 7, 9, 7, 8, 1, 2, 7, 0, 5, 4, 9, 5, 8, 3, 9,	1, 5, 2, 7, 9, 7, 8, 1, 2,	
	2, 5, 7, 9, 4, 1, 9, 2, 2, 5, 4, 0, 3, 3, 2, 4, 9, 2, 0, 2, 0, 0, 5, 9, 9, 3, 9, 3, 3, 4, 9, 8,	3, 9, 5, 9, 9, 6, 6, 8, 9,	7, 0, 5, 4, 9, 5, 8, 3, 9, 3, 9, 5, 9, 9, 6, 6, 8, 9,	
	3, 6, 4, 3, 8, 8, 1, 4, 2, 9, 1, 2, 5, 6, 3, 4,	6, 8, 5, 5, 4, 1, 1, 6, 4,	6, 8, 5, 5, 4, 1, 1, 6, 4,	
	1, 5, 9, 0, 1, 7, 2, 5, 5, 6, 1, 7, 1, 0, 7, 4,	5, 9, 7, 5, 5, 0, 7, 7, 8,	5, 9, 7, 5, 5, 0, 7, 7, 8,	
	0, 5, 1, 3, 9, 7, 7, 4, 4, 5, 6, 0, 0, 6, 2, 2,	3, 0, 1, 1, 9, 8, 5, 0, 7,	3, 0, 1, 1, 9, 8, 5, 0, 7,	
	4, 8, 2, 5, 6, 5, 6, 0, 2, 1, 7, 8, 7, 7, 0, 2, 8, 4, 2, 2, 7, 6, 8, 5, 0, 9, 5, 0, 0, 0, 9, 9,	1, 2, 5, 8, 2, 2, 4, 8, 5, 6, 5, 1, 5, 8, 6, 3, 9, 2,	1, 2, 5, 8, 2, 2, 4, 8, 5, 6, 5, 1, 5, 8, 6, 3, 9, 2,	
	5, 3, 7, 2, 0, 8, 9, 4, 5, 0, 5, 9, 2, 6, 2, 5,	7, 0, 3, 5, 3, 2, 1, 0, 8,	7, 0, 3, 5, 3, 2, 1, 0, 8,	
	3, 3, 5, 2, 2, 8, 3, 0, 3, 9, 7, 8, 3, 2, 8, 6,	4, 0, 8, 8, 0, 7, 5, 6, 3,	4, 0, 8, 8, 0, 7, 5, 6, 3,	
	9, 6, 6, 6, 5, 1, 7, 3, 3, 7, 1, 9, 3, 5, 1, 4,	7, 4, 5, 2, 7, 6, 9, 4, 5,	7, 4, 5, 2, 7, 6, 9, 4, 5,	
	3, 4, 2, 0, 2, 0, 1, 0, 2, 1, 6, 3, 2, 9, 8, 3,	0, 2, 6, 9, 3, 2, 5, 6, 7,	0, 2, 6, 9, 3, 2, 5, 6, 7,	
	2, 1, 7, 1, 8, 0, 7, 2, 4, 6, 4, 1, 6, 5, 6, 8, 5, 4, 5, 5, 4, 0, 6, 8, 5, 1, 2, 5, 0, 5, 9, 3,	5, 4, 9, 5, 4, 9, 9, 4, 8, 0, 8, 6, 0, 5, 4, 1, 7, 2,	5, 4, 9, 5, 4, 9, 9, 4, 8, 0, 8, 6, 0, 5, 4, 1, 7, 2,	
	8, 1, 7, 8, 5, 6, 9, 5, 6, 1, 1, 0, 6, 1, 8, 0,	7, 4, 1, 6, 8, 9, 1, 7, 7,	7, 4, 1, 6, 8, 9, 1, 7, 7,	
	4, 7, 5, 4, 9, 7, 5, 1, 7, 7, 2, 7, 8, 4, 6, 0,	0, 5, 3, 3, 5, 4, 1, 0, 5,	0, 5, 3, 3, 5, 4, 1, 0, 5,	
	2, 6, 4, 9, 5, 0, 1, 1, 2, 0, 2, 8, 4, 7, 2, 9,	2, 3, 3, 2, 3, 8, 3, 9, 1,	2, 3, 3, 2, 3, 8, 3, 9, 1,	
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	9, 9, 2, 8, 3, 6, 7, 9, 6, 9, 6, 6, 1, 5, 0, 7,	5, 0, 5, 3, 6, 9, 2, 7, 6,	5, 0, 5, 3, 6, 9, 2, 7, 6,	
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	I and the second			1

10.47 P		Inked List (CC06). Attempt review	
	Test	Expected	Got
	5, 8, 5, 1, 9, 9, 6, 4, 0, 0, 0, 8, 1, 4, 9, 6,	8, 0, 5, 9, 9, 6, 7, 7, 9,	8, 0, 5, 9, 9, 6, 7, 7, 9,
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	7, 2, 9, 3, 1, 8, 3, 0, 8, 8, 3, 2, 1, 7, 5, 5,	9, 3, 9, 3, 3, 4, 9, 8, 3,	9, 3, 9, 3, 3, 4, 9, 8, 3,
	6, 0, 6, 8, 2, 6, 9, 7, 5, 1, 1, 6, 0, 6, 2, 1,	6, 4, 3, 8, 8, 1, 4, 2, 9,	6, 4, 3, 8, 8, 1, 4, 2, 9,
	4, 5, 8, 7, 4, 3, 4, 6, 7, 9, 9, 8, 2, 5, 9, 6,	1, 2, 5, 6, 3, 4, 1, 5, 9,	1, 2, 5, 6, 3, 4, 1, 5, 9,
	5, 0, 3, 2, 5, 7, 7, 4, 0, 8, 3, 4, 3, 2, 3, 0,	0, 1, 7, 2, 5, 5, 6, 1, 7,	0, 1, 7, 2, 5, 5, 6, 1, 7,
	5, 6, 0, 2, 5, 7, 0, 4, 2, 3, 0, 9, 1, 9, 3, 7,	1, 0, 7, 4, 0, 5, 1, 3, 9,	1, 0, 7, 4, 0, 5, 1, 3, 9,
	8, 4, 7, 0, 9, 8, 7, 3, 7, 5, 1, 7, 7, 4, 4, 1, 7, 8, 4, 0, 6, 4, 9, 5, 4, 5, 3, 7, 3, 3, 7, 2,	7, 7, 4, 4, 5, 6, 0, 0, 6, 2, 2, 4, 8, 2, 5, 6, 5, 6,	7, 7, 4, 4, 5, 6, 0, 0, 6, 2, 2, 4, 8, 2, 5, 6, 5, 6,
	1, 6, 3, 4, 6, 3, 1, 5, 9, 7, 3, 6, 2, 0, 9, 7,	0, 2, 1, 7, 8, 7, 7, 0, 2,	0, 2, 1, 7, 8, 7, 7, 0, 2,
	0, 0, 3, 1, 5, 6, 3, 8, 2, 1, 6, 3, 4, 8, 9, 2,	8, 4, 2, 2, 7, 6, 8, 5, 0,	8, 4, 2, 2, 7, 6, 8, 5, 0,
	3, 5, 9, 1, 4, 6, 9, 5, 8, 6, 6, 3, 4, 7, 2, 3,	9, 5, 0, 0, 0, 9, 9, 5, 3,	9, 5, 0, 0, 0, 9, 9, 5, 3,
	7, 0, 2, 2, 7, 6, 8, 9, 9, 7, 2, 0, 9, 0, 3, 9,	7, 2, 0, 8, 9, 4, 5, 0, 5,	7, 2, 0, 8, 9, 4, 5, 0, 5,
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	5, 6, 0,snip 9, 5, 6, 1, 4, 6, 9, 4, 3,	4, 3, 4, 2, 0, 2, 0, 1, 0,	4, 3, 4, 2, 0, 2, 0, 1, 0,
	9, 1, 1, 9, 6, 7, 6, 3, 5, 9, 1, 7, 4, 9, 6, 9,	2, 1, 6, 3, 2, 9, 8, 3, 2,	2, 1, 6, 3, 2, 9, 8, 3, 2,
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	5, 1, 8, 0, 2, 7, 4, 2, 4, 2, 9, 6, 6, 4, 6, 7,	2, 6, 4, 9, 5, 0, 1, 1, 2,	2, 6, 4, 9, 5, 0, 1, 1, 2,
	9, 5, 6, 8, 4, 8, 9, 0, 2, 2, 4, 2, 5, 2, 2, 0,	0, 2, 8, 4, 7, 2, 9, 2, 3,	0, 2, 8, 4, 7, 2, 9, 2, 3,
	3, 5, 4, 5, 1, 9, 7, 6, 7, 5, 0, 4, 2, 7, 5, 2,	3, 2, 2, 3, 2, 0, 0, 1, 8,	3, 2, 2, 3, 2, 0, 0, 1, 8,
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	9, 5, 0, 7, 2, 4, 6, 4, 6, 0, 8, 9, 1, 2, 7, 6,	6, 7, 2, 2, 7, 3, 7, 5, 4,	6, 7, 2, 2, 7, 3, 7, 5, 4,
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	5, 0, 5, 6, 3, 2, 8, 1, 9, 7, 7, 4, 0, 7, 2, 4,	7, 8, 8, 6, 3, 1, 9, 6, 3,	7, 8, 8, 6, 3, 1, 9, 6, 3,
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	1, 3, 9, 6, 7, 8, 4, 7, 4, 5, 5, 8, 0, 6, 2, 7,	6, 4, 0, 0, 0, 8, 1, 4, 9,	6, 4, 0, 0, 0, 8, 1, 4, 9,
	4, 6, 0, 3, 0, 4, 6, 5, 8, 0, 3, 4, 7, 9, 3, 8,	6, 2, 0, 5, 9, 5, 8, 0, 3,	6, 2, 0, 5, 9, 5, 8, 0, 3,
	5, 2, 1, 6, 0, 9, 0, 4, 7, 9, 2, 0, 7, 2, 5, 6, 4, 9, 4, 1, 0, 8, 5, 6, 2, 0, 8, 0, 1, 4, 9, 0,	9, 2, 2, 4, 3, 4, 9, 5, 2, 6, 0, 4, 5, 4, 0, 5, 5, 4,	9, 2, 2, 4, 3, 4, 9, 5, 2, 6, 0, 4, 5, 4, 0, 5, 5, 4,
	2, 3, 8, 3, 2, 4, 3, 0, 1, 0, 5, 3, 3, 2, 2, 8,	6, 6, 3, 8, 2, 7, 8, 0, 2,	6, 6, 3, 8, 2, 7, 8, 0, 2,
	6, 0, 1, 1, 3, 1, 6, 1, 0, 3, 0, 6, 3, 8, 1, 0,	5, 4, 5, 6, 3, 3, 6, 8, 1,	5, 4, 5, 6, 3, 3, 6, 8, 1,
	1, 0, 2, 2, 7, 1, 1, 1, 4, 6, 2, 2, 0, 8, 6, 6,	0, 6, 1, 5, 7, 2, 9, 3, 1,	0, 6, 1, 5, 7, 2, 9, 3, 1,
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	1, 1, 5, 3, 1, 0, 3, 3, 1, 8, 7, 8, 4, 1, 0, 1,	5, 5, 6, 0, 6, 8, 2, 6, 9,	5, 5, 6, 0, 6, 8, 2, 6, 9,
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	1, 1, 1, 7, 1, 3, 6, 7, 6, 0, 9, 3, 5, 3, 6, 5,	9, 9, 8, 2, 5, 9, 6, 5, 0,	9, 9, 8, 2, 5, 9, 6, 5, 0,
	4, 8, 9, 9, 0, 9, 6, 8, 9, 6, 2, 6, 2, 3, 5, 0,	3, 2, 5, 7, 7, 4, 0, 8, 3,	3, 2, 5, 7, 7, 4, 0, 8, 3,
	7, 3, 5, 1, 8, 6, 9, 4, 5, 9, 6, 8, 6, 1, 2, 0,	4, 3, 2, 3, 0, 5, 6, 0, 2,	4, 3, 2, 3, 0, 5, 6, 0, 2,

Test	Expected	Got
6, 5, 1, 0, 8, 5, 5, 6, 6, 8, 5, 0, 4, 5, 4, 0,	5, 7, 0, 4, 2, 3, 0, 9, 1,	5, 7, 0, 4, 2, 3, 0, 9, 1,
5, 6, 4, 0, 5, 5, 0, 1, 1, 6, 2, 9, 6, 1, 4, 0,	9, 3, 7, 8, 4, 7, 0, 9, 8,	9, 3, 7, 8, 4, 7, 0, 9, 8,
9, 8, 6, 7, 3, 0, 3, 7, 2, 8, 5, 6, 0, 8, 4, 2,	7, 3, 7, 5, 1, 7, 7, 4, 4,	7, 3, 7, 5, 1, 7, 7, 4, 4,
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7, 5, 4, 1, 1, 0, 4, 7, 6, 1, 6, 8, 9, 6, 3, 2,	1, 5, 6, 0, 8, 0, 3, 3,	1, 5, 6, 0, 8, 0, 3, 3,
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7, 4, 9, 5, 9, 2, 6, 4, 9, 3, 4, 4, 6, 7, 6, 6,	1, 4, 5, 9, 1, 9, 6, 5, 1,	1, 4, 5, 9, 1, 9, 6, 5, 1,
6, 5, 0, 4, 9, 4, 3, 9, 2, 6, 3, 0, 7, 6, 5, 6,	7, 4, 1, 3, 0, 7, 6, 6, 3,	7, 4, 1, 3, 0, 7, 6, 6, 3,
8, 8, 7, 6, 4, 5, 1, 8, 1, 4, 4, 3, 5, 6, 2, 2, 8, 8, 8, 0, 5, 8, 9, 0, 9, 0, 7, 0, 2, 6, 2, 3,	8, 8, 9, 3, 8, 6, 5, 4, 1, 7, 3, 5, 8, 0, 9, 8, 5, 3,	8, 8, 9, 3, 8, 6, 5, 4, 1, 7, 3, 5, 8, 0, 9, 8, 5, 3,
8, 1, 6, 5};	2, 6, 4, 4, 1, 6, 3, 1, 5,	2, 6, 4, 4, 1, 6, 3, 1, 5,
int k = 11111;	9, 9, 7, 9, 4, 4, 2, 8, 3,	9, 9, 7, 9, 4, 4, 2, 8, 3,
LLNode* head = LLNode::createWithIterators(arr,	6, 0, 9, 8, 5, 1, 2, 3, 3,	6, 0, 9, 8, 5, 1, 2, 3, 3,
<pre>arr + sizeof(arr) / sizeof(int));</pre>	7, 5, 7, 0, 1, 2, 8, 3, 4,	7, 5, 7, 0, 1, 2, 8, 3, 4,
LLNode::printList(head);	4, 9, 3, 0, 2, 7, 3, 2, 6,	4, 9, 3, 0, 2, 7, 3, 2, 6,
cout << "\n";	4, 5, 3, 4, 9, 7, 1, 5, 8,	4, 5, 3, 4, 9, 7, 1, 5, 8,
<pre>LLNode* newhead = rotateLinkedList(head, k);</pre>	7, 9, 9, 1, 7, 3, 1, 3, 5,	7, 9, 9, 1, 7, 3, 1, 3, 5,
<pre>LLNode::printList(newhead);</pre>	4, 4, 5, 4, 4, 8, 2, 1, 0,	4, 4, 5, 4, 4, 8, 2, 1, 0,
	5, 2, 3, 8, 2, 9, 2, 4, 3,	5, 2, 3, 8, 2, 9, 2, 4, 3,
	3, 7, 8, 1, 5, 5, 0, 4, 5,	3, 7, 8, 1, 5, 5, 0, 4, 5,
	2, 7, 7, 0, 8, 0, 4, 1, 9,	2, 7, 7, 0, 8, 0, 4, 1, 9,
	2, 0, 1, 6, 3, 9, 8, 3, 8,	2, 0, 1, 6, 3, 9, 8, 3, 8,
	3, 7, 1, 2, 5, 9, 1, 2, 9,	3, 7, 1, 2, 5, 9, 1, 2, 9,
	7, 4, 2, 4, 5, 5, 7, 9, 6,	7, 4, 2, 4, 5, 5, 7, 9, 6,
	9, 0, 6, 8, 0, 5, 3, 9, 1,	9, 0, 6, 8, 0, 5, 3, 9, 1,
	9, 9, 5, 6, 1, 0, 6, 2, 0,	9, 9, 5, 6, 1, 0, 6, 2, 0,
	8, 1, 1, 2, 3, 5, 6, 8, 6,	8, 1, 1, 2, 3, 5, 6, 8, 6,
	6, 4, 8, 7, 5, 4, 2, 7, 6,	6, 4, 8, 7, 5, 4, 2, 7, 6,
	8, 0, 9, 2, 9, 5, 3, 3, 0,	8, 0, 9, 2, 9, 5, 3, 3, 0,
	6, 4, 8, 8, 1, 6, 0, 5, 8,	6, 4, 8, 8, 1, 6, 0, 5, 8,
	6, 6, 1, 1, 0, 3, 7, 4, 3, 0, 0, 3, 4, 0, 7, 0, 7, 1,	6, 6, 1, 1, 0, 3, 7, 4, 3, 0, 0, 3, 4, 0, 7, 0, 7, 1,
	3, 7, 5, 7, 5, 8, 9, 3, 5,	3, 7, 5, 7, 5, 8, 9, 3, 5,
	8, 8, 8, 4, 5, 1, 2, 8, 6,	8, 8, 8, 4, 5, 1, 2, 8, 6,
	9, 6, 9, 2, 7, 6, 9, 9, 4,	9, 6, 9, 2, 7, 6, 9, 9, 4,
	, ·, , ·, ·, ·, ·, ·, ·, ·)	
	0, 8, 0, 4, 3, 5, 2, 0, 3,	0, 8, 0, 4, 3, 5, 2, 0, 3,
	0, 8, 0, 4, 3, 5, 2, 0, 3, 2, 6, 5, 8, 5, 2, 9, 8, 6,	2, 6, 5, 8, 5, 2, 9, 8, 6,
	2, 6, 5, 8, 5, 2, 9, 8, 6,	2, 6, 5, 8, 5, 2, 9, 8, 6,

, '	0.47 1 1	VI Olligiy L	inked List (0000). Attempt review	DIV-LIVIO
		Test	Expected	Got
			3, 1, 4, 0, 7, 7, 9, 1, 8,	3, 1, 4, 0, 7, 7, 9, 1, 8,
			6, 3, 9, 0, 7, 7, 4, 7, 4,	6, 3, 9, 0, 7, 7, 4, 7, 4,
			3, 8, 2, 6, 4, 0, 5, 8, 8,	3, 8, 2, 6, 4, 0, 5, 8, 8,
			7, 2, 7, 3, 2, 3, 8, 7, 1,	7, 2, 7, 3, 2, 3, 8, 7, 1,
			3, 3, 7, 2, 2, 1, 6, 3, 4,	3, 3, 7, 2, 2, 1, 6, 3, 4,
			6, 5, 3, 4, 0, 2, 1, 2, 5,	6, 5, 3, 4, 0, 2, 1, 2, 5,
			1, 2, 6, 9, 6, 8, 0, 9, 7,	1, 2, 6, 9, 6, 8, 0, 9, 7,
			7, 8, 8, 6, 9, 7, 8, 1, 5,	7, 8, 8, 6, 9, 7, 8, 1, 5,
			3, 3, 8, 8, 4, 7, 6, 2, 2,	3, 3, 8, 8, 4, 7, 6, 2, 2,
			7, 0, 6, 8, 1, 5, 2, 5, 6,	7, 0, 6, 8, 1, 5, 2, 5, 6,
			2, 1, 2, 4, 9, 2, 6, 0, 2,	2, 1, 2, 4, 9, 2, 6, 0, 2,
			8, 0, 9, 9, 4, 7, 5, 4, 6,	8, 0, 9, 9, 4, 7, 5, 4, 6,
			6, 5, 2, 3, 9, 2, 7, 0, 6,	6, 5, 2, 3, 9, 2, 7, 0, 6,
			7, 1, 5, 4, 9, 8, 3, 2, 1,	7, 1, 5, 4, 9, 8, 3, 2, 1,
			4, 7, 9, 9, 6, 9, 6, 6, 6,	4, 7, 9, 9, 6, 9, 6, 6, 6,
			0, 9, 8, 5, 7, 3, 4, 8, 0,	0, 9, 8, 5, 7, 3, 4, 8, 0,
			4, 1, 1, 0, 9, 8, 4, 1, 7,	4, 1, 1, 0, 9, 8, 4, 1, 7,
			3, 1, 1, 2, 5, 4, 4, 6, 2,	3, 1, 1, 2, 5, 4, 4, 6, 2,
				7, 4, 5, 8, 5, 3, 0, 7, 1,
				7, 3, 8, 5, 1, 1, 7, 2, 2,
				4, 3, 4, 5, 4, 3, 0, 3, 7,
			2, 0, 9, 3, 4, 2, 4, 3, 5,	2, 0, 9, 3, 4, 2, 4, 3, 5,
				7, 8, 4, 7, 4, 9, 5, 6, 4,
			5, 0, 5, 2, 9, 6, 9, 3, 5,	5, 0, 5, 2, 9, 6, 9, 3, 5,
				6, 9, 9, 0, 5, 2, 1, 0, 4,
				6, 1, 1, 7, 8, 8, 5, 3, 5,
				8, 1, 1, 2, 6, 8, 1, 8, 2,
				3, 9, 3, 0, 5, 8, 0, 0, 6,
				2, 4, 0, 2, 6, 2, 2, 8, 7,
				1, 8, 6, 8, 2, 7, 9, 3, 6,
			3, 5, 7, 1, 7, 0, 8, 6, 6,	3, 5, 7, 1, 7, 0, 8, 6, 6,
			6, 5, 2, 6, 3, 2, 6, 3, 5,	6, 5, 2, 6, 3, 2, 6, 3, 5,
				6, 5, 2, 3, 1, 7, 0, 2, 3,
				2, 3, 3, 0, 6, 1, 5, 1, 1, 0, 2, 1, 7, 8, 8, 6, 7, 2,
				9, 6, 1, 0, 1, 2, 5, 0, 0,
				6, 5, 7, 7, 4, 6, 4, 7, 4,
			1, 5, 6, 3, 1, 7, 5, 6, 4,	1, 5, 6, 3, 1, 7, 5, 6, 4,
			4, 2, 8, 5, 7, 6, 2, 8, 1,	4, 2, 8, 5, 7, 6, 2, 8, 1,
			2, 2, 0, 8, 9, 3, 5, 6, 4,	2, 2, 0, 8, 9, 3, 5, 6, 4,
			3, 4, 0, 9, 7, 7, 0, 0, 9,	3, 4, 0, 9, 7, 7, 0, 0, 9,
			8, 8, 9, 6, 4, 6, 6, 4, 8,	8, 8, 9, 6, 4, 6, 6, 4, 8,
			0, 8, 2, 8, 0, 0, 4, 1, 3,	0, 8, 2, 8, 0, 0, 4, 1, 3,
			0, 2, 9, 7, 3, 3, 0, 5, 9,	0, 2, 9, 7, 3, 3, 0, 5, 9,
			0, 1, 4, 7, 1, 6, 4, 4, 1,	0, 1, 4, 7, 1, 6, 4, 4, 1,
			4, 8, 9, 7, 5, 9, 1, 9, 6,	4, 8, 9, 7, 5, 9, 1, 9, 6,
			5, 3, 4, 5, 3, 6, 1, 0, 4,	5, 3, 4, 5, 3, 6, 1, 0, 4,
			3, 0, 9, 3, 8, 8, 9, 7, 3,	3, 0, 9, 3, 8, 8, 9, 7, 3,
			0, 4, 2, 4, 9, 7, 4, 3, 2,	0, 4, 2, 4, 9, 7, 4, 3, 2,
			2, 8, 9, 2, 5, 0, 9, 3, 2,	2, 8, 9, 2, 5, 0, 9, 3, 2,
			1, 9, 3, 2, 3, 2, 8, 0, 2,	1, 9, 3, 2, 3, 2, 8, 0, 2,
			5, 1, 6, 8, 3, 1, 7, 8, 2,	5, 1, 6, 8, 3, 1, 7, 8, 2,
			6, 2, 0, 2, 7, 2, 6, 7, 3,	6, 2, 0, 2, 7, 2, 6, 7, 3,
			6, 1, 5, 6, 3, 0, 4, 6, 4,	6, 1, 5, 6, 3, 0, 4, 6, 4,
				4, 2, 4, 1, 6, 0, 5, 5, 9,
			3, 8, 4, 3, 4, 9, 6, 2, 0,	3, 8, 4, 3, 4, 9, 6, 2, 0,
			4, 6, 0, 5, 0, 9, 0, 9, 7,	4, 6, 0, 5, 0, 9, 0, 9, 7,
			6, 8, 7, 0, 7, 3, 6, 1, 8,	6, 8, 7, 0, 7, 3, 6, 1, 8,
				4, 2, 8, 7, 0, 2, 5, 4, 0,
			5, 7, 4, 8, 5, 1, 2, 2, 1,	5, 7, 4, 8, 5, 1, 2, 2, 1,
				6, 5, 0, 9, 4, 6, 2, 7, 7,
				4, 2, 9, 7, 6, 7, 5, 0, 5,
			5, 2, 8, 8, 8, 8, 2, 0, 6, 2, 1, 8, 9, 5, 1, 2, 8, 1,	5, 2, 8, 8, 8, 8, 2, 0, 6, 2, 1, 8, 9, 5, 1, 2, 8, 1,
			, _, _, _, _, _, _, _, _, _, _,	_, _, _, _, _, _, _, _, _, _,

47 PM Singly Linked List (CC08): Attempt review BK-LMS			
Expected	Got		
5, 5, 7, 2, 8, 6, 1, 9, 6,	5, 5, 7, 2, 8, 6, 1, 9, 6,		
9, 4, 1, 0, 0, 9, 4, 1, 1,	9, 4, 1, 0, 0, 9, 4, 1, 1,		
3, 9, 8, 1, 0, 4, 3, 2, 6,	3, 9, 8, 1, 0, 4, 3, 2, 6,		
5, 9, 8, 3, 7, 9, 4, 0, 6,	5, 9, 8, 3, 7, 9, 4, 0, 6,		
8, 8, 4, 1, 5, 0, 5, 6, 3,	8, 8, 4, 1, 5, 0, 5, 6, 3,		
3, 1, 0, 9, 3, 7, 6, 8, 7,	3, 1, 0, 9, 3, 7, 6, 8, 7,		
8, 1, 1, 0, 3, 1, 8, 9, 7,	8, 1, 1, 0, 3, 1, 8, 9, 7,		
9, 1, 8, 5, 8, 3, 3, 0, 7,	9, 1, 8, 5, 8, 3, 3, 0, 7,		
2, 3, 8, 9, 5, 0, 9, 4, 7,	2, 3, 8, 9, 5, 0, 9, 4, 7,		
7, 5, 6, 2, 2, 2, 6, 5, 3,	7, 5, 6, 2, 2, 2, 6, 5, 3,		
1, 9, 5, 1, 4, 7, 7, 4, 6,	1, 9, 5, 1, 4, 7, 7, 4, 6,		
6, 1, 6, 0, 6, 3, 8, 0, 4,	6, 1, 6, 0, 6, 3, 8, 0, 4,		
2, 2, 0, 5, 3, 9, 8, 7, 6,	2, 2, 0, 5, 3, 9, 8, 7, 6,		
3, 5, 1, 9, 4, 5, 0, 7, 9,	3, 5, 1, 9, 4, 5, 0, 7, 9,		
1, 9, 1, 3, 6, 3, 2, 3, 9,	1, 9, 1, 3, 6, 3, 2, 3, 9,		
2, 5, 6, 0, 2, 7, 2, 7, 9,	2, 5, 6, 0, 2, 7, 2, 7, 9,		
1, 5, 1, 4, 3, 9, 8, 6, 2,	1, 5, 1, 4, 3, 9, 8, 6, 2,		
1, 9, 0, 2, 8, 1, 9, 3, 5,	1, 9, 0, 2, 8, 1, 9, 3, 5,		
2, 7, 7, 9, 9, 9, 6, 6, 6,	2, 7, 7, 9, 9, 9, 6, 6, 6,		
7, 6, 1, 2, 7, 6, 4, 0, 9,	7, 6, 1, 2, 7, 6, 4, 0, 9,		
5, 6, 7, 5, 1, 3, 7, 7, 8,	5, 6, 7, 5, 1, 3, 7, 7, 8,		
1, 6, 8, 4, 5, 4, 7, 2, 4,	1, 6, 8, 4, 5, 4, 7, 2, 4,		
0, 1, 4, 8, 1, 2, 3, 0, 8,	0, 1, 4, 8, 1, 2, 3, 0, 8,		
8, 0, 5, 0, 5, 8, 4, 7, 8,	8, 0, 5, 0, 5, 8, 4, 7, 8,		
7, 0, 0, 0, 5, 0, 1, 0, 0,	7, 0, 0, 0, 5, 0, 1, 0, 0,		
1, 5, 5, 1, 4, 5, 7, 6, 8,	1, 5, 5, 1, 4, 5, 7, 6, 8,		
4, 9, 9, 6, 5, 6, 5, 2, 9,	4, 9, 9, 6, 5, 6, 5, 2, 9,		
2, 7, 6, 3, 5, 5, 0, 5, 9,	2, 7, 6, 3, 5, 5, 0, 5, 9,		
0, 4, 7, 1, 7, 9, 8, 1, 5,	0, 4, 7, 1, 7, 9, 8, 1, 5,		
5, 1, 5, 4, 5, 9, 6, 6, 8,	5, 1, 5, 4, 5, 9, 6, 6, 8,		
8, 7, 0, 7, 2, 4, 4, 4, 3,	8, 7, 0, 7, 2, 4, 4, 4, 3,		
1, 4, 5, 9, 8, 0, 8, 4, 9,	1, 4, 5, 9, 8, 0, 8, 4, 9,		
2, 4, 1, 9, 9, 1, 9, 5, 3,	2, 4, 1, 9, 9, 1, 9, 5, 3,		
3, 1, 9, 2, 6, 0, 3, 3, 3,	3, 1, 9, 2, 6, 0, 3, 3, 3,		
0, 3, 9, 1, 2, 4, 5, 3, 5,			
7, 9, 7, 7, 4, 6, 9, 7, 5,			
9, 9, 5, 2, 5, 9, 7, 0, 4,			
3, 1, 4, 3, 6, 1, 8, 5, 8,			
8, 3, 7, 1, 5, 3, 5, 0, 3,			
4, 3, 7, 9, 6, 9, 6, 9, 6,			
6, 4, 7]	6, 4, 7]		
	Expected 5, 5, 7, 2, 8, 6, 1, 9, 6, 9, 4, 1, 1, 1, 3, 9, 8, 1, 0, 4, 3, 2, 6, 5, 9, 8, 3, 7, 9, 4, 0, 6, 8, 8, 4, 1, 5, 0, 5, 6, 3, 3, 1, 0, 9, 3, 7, 6, 8, 7, 8, 1, 1, 0, 3, 1, 8, 9, 7, 9, 1, 8, 5, 8, 3, 3, 0, 7, 2, 3, 8, 9, 5, 0, 9, 4, 7, 7, 5, 6, 2, 2, 2, 6, 5, 3, 1, 9, 5, 1, 4, 7, 7, 4, 6, 6, 1, 6, 0, 6, 3, 8, 0, 4, 2, 2, 0, 5, 3, 9, 8, 7, 6, 3, 5, 1, 9, 4, 5, 0, 7, 9, 1, 9, 1, 3, 6, 3, 2, 3, 9, 2, 5, 6, 0, 2, 7, 2, 7, 9, 1, 5, 1, 4, 3, 9, 8, 6, 2, 1, 9, 0, 2, 8, 1, 9, 3, 5, 2, 7, 7, 9, 9, 9, 6, 6, 6, 7, 6, 1, 2, 7, 6, 4, 0, 9, 5, 6, 7, 5, 1, 3, 7, 7, 8, 1, 6, 8, 4, 5, 4, 7, 2, 4, 0, 1, 4, 8, 1, 2, 3, 0, 8, 8, 0, 5, 0, 5, 8, 4, 7, 8, 7, 0, 0, 0, 5, 0, 1, 0, 0, 1, 5, 5, 1, 4, 5, 7, 6, 8, 4, 9, 9, 6, 5, 6, 5, 2, 9, 2, 7, 6, 3, 5, 5, 0, 5, 9, 0, 4, 7, 1, 7, 9, 8, 1, 5, 5, 1, 5, 4, 5, 9, 6, 6, 8, 8, 7, 0, 7, 2, 4, 4, 4, 3, 1, 4, 5, 9, 8, 0, 8, 4, 9, 2, 4, 1, 9, 9, 1, 9, 5, 3, 3, 1, 9, 2, 6, 0, 3, 3, 3, 0, 3, 9, 1, 2, 4, 5, 3, 5, 7, 9, 7, 7, 4, 6, 9, 7, 5, 9, 9, 5, 2, 5, 9, 7, 0, 4, 3, 1, 4, 3, 6, 1, 8, 5, 8, 8, 3, 7, 1, 5, 3, 5, 0, 3, 4, 3, 7, 9, 6		

[
		Test	Expected	Got	
	~	int arr[] = {4, 3, 0, 1, 8, 3, 3, 8, 6, 8, 6, 6, 6, 4, 4, 9, 4, 6, 0, 6, 5, 2, 2, 9, 9, 1, 6, 2, 8,	[4, 3, 0, 1, 8, 3, 3, 8, 6, 8, 6, 6, 6, 4, 4, 9, 4, 6, 0,	[4, 3, 0, 1, 8, 3, 3, 8, 6, 8, 6, 6, 6, 4, 4, 9, 4, 6, 0,	~
		1, 5, 8, 6, 5, 4, 0, 9, 9, 6, 2, 8, 1, 7, 2, 6,	6, 5, 2, 2, 9, 9, 1, 6, 2,	6, 5, 2, 2, 9, 9, 1, 6, 2,	
		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,	8, 1, 5, 8, 6, 5, 4, 0, 9, 9, 6, 2, 8, 1, 7, 2, 6, 4,	8, 1, 5, 8, 6, 5, 4, 0, 9, 9, 6, 2, 8, 1, 7, 2, 6, 4,	
		0, 9, 7, 5, 6, 4, 5, 3, 1, 5, 5, 1, 4, 4, 9, 1,	9, 8, 1, 7, 6, 6, 2, 4, 5,	9, 8, 1, 7, 6, 6, 2, 4, 5,	
		0, 2, 3, 5, 4, 9, 3, 2, 2, 3, 9, 7, 8, 6, 7, 7,	5, 0, 6, 8, 9, 3, 6, 2, 7,	5, 0, 6, 8, 9, 3, 6, 2, 7,	
		4, 4, 8, 0, 6, 6, 2, 5, 8, 7, 6, 8, 7, 1, 7, 6,	3, 0, 2, 6, 8, 9, 9, 6, 8,	3, 0, 2, 6, 8, 9, 9, 6, 8,	
		1, 9, 2, 0, 3, 7, 1, 0, 0, 4, 5, 4, 4, 2, 9, 4,	2, 5, 0, 8, 0, 9, 7, 5, 6,	2, 5, 0, 8, 0, 9, 7, 5, 6,	
		6, 4, 5, 0, 8, 3, 9, 8, 2, 4, 9, 2, 4, 2, 6, 5,	4, 5, 3, 1, 5, 5, 1, 4, 4, 9, 1, 0, 2, 3, 5, 4, 9, 3,	4, 5, 3, 1, 5, 5, 1, 4, 4, 9, 1, 0, 2, 3, 5, 4, 9, 3,	
		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,	2, 2, 3, 9, 7, 8, 6, 7, 7,	2, 2, 3, 9, 7, 8, 6, 7, 7,	
		4, 6, 7, 4, 3, 3, 7, 8, 7, 5, 7, 7, 9, 6, 1, 9,	4, 4, 8, 0, 6, 6, 2, 5, 8,	4, 4, 8, 0, 6, 6, 2, 5, 8,	
		4, 4, 1, 0, 9, 1, 2, 4, 8, 3, 1, 1, 7, 1, 7, 5,	7, 6, 8, 7, 1, 7, 6, 1, 9,	7, 6, 8, 7, 1, 7, 6, 1, 9,	
		5, 7, 1, 1, 1, 0, 0, 6, 7, 2, 3, 6, 6, 1, 4, 6,	2, 0, 3, 7, 1, 0, 0, 4, 5,	2, 0, 3, 7, 1, 0, 0, 4, 5,	
		8, 9, 7, 0, 8, 7, 8, 8, 0, 9, 0, 0, 2, 0, 5, 4,	4, 4, 2, 9, 4, 6, 4, 5, 0, 8, 3, 9, 8, 2, 4, 9, 2, 4,	4, 4, 2, 9, 4, 6, 4, 5, 0,	
		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,	2, 6, 5, 2, 3, 5, 3, 8, 7,	8, 3, 9, 8, 2, 4, 9, 2, 4, 2, 6, 5, 2, 3, 5, 3, 8, 7,	
		8, 5, 4, 5, 3, 2, 9, 9, 8, 4, 0, 0, 7, 3, 1, 2,	6, 1, 2, 7, 9, 8, 7, 4, 8,	6, 1, 2, 7, 9, 8, 7, 4, 8,	
		0, 3, 8, 1, 2, 0, 6, 9, 0, 7, 7, 8, 4, 3, 1, 9,	5, 4, 3, 1, 6, 0, 6, 6, 9,	5, 4, 3, 1, 6, 0, 6, 6, 9,	
		5, 2, 4, 1, 6, 5, 4, 7, 8, 4, 7, 5, 9, 6, 9, 4,	4, 0, 4, 0, 0, 7, 8, 9, 4,	4, 0, 4, 0, 0, 7, 8, 9, 4,	
		4, 8, 4, 7, 2, 7, 2, 4, 6, 1, 9, 1, 4, 5, 9, 3,	6, 7, 4, 3, 3, 7, 8, 7, 5,	6, 7, 4, 3, 3, 7, 8, 7, 5,	
		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, 7, 9, 6, 1, 9, 4, 4, 1, 0, 9, 1, 2, 4, 8, 3, 1, 1,	7, 7, 9, 6, 1, 9, 4, 4, 1, 0, 9, 1, 2, 4, 8, 3, 1, 1,	
		7, 8, 0, 2, 2, 5, 8, 0, 4, 3, 1, 8, 2, 2, 7, 9,	7, 1, 7, 5, 5, 7, 1, 1, 1,	7, 1, 7, 5, 5, 7, 1, 1, 1,	
		1, 0, 0, 9, 1, 7, 4, 6, 2, 5, 5, 9, 3, 2, 6, 6,	0, 0, 6, 7, 2, 3, 6, 6, 1,	0, 0, 6, 7, 2, 3, 6, 6, 1,	
		6, 7, 9, 0, 0, 1, 7, 5, 8, 9, 4, 1, 7, 0, 1, 2,	4, 6, 8, 9, 7, 0, 8, 7, 8,	4, 6, 8, 9, 7, 0, 8, 7, 8,	
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		0, 2, 3, 7, 8, 8, 0, 9, 5, 9, 1, 0, 6, 1, 1, 5,	5, 9, 3, 0, 6, 6, 1, 0, 2,	5, 9, 3, 0, 6, 6, 1, 0, 2,	
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		8, 7, 4, 3, 3, 7, 4, 6, 9, 9, 0, 1, 2, 7, 6, 7,	3, 4, 8, 1, 8, 7, 1, 6, 0,	3, 4, 8, 1, 8, 7, 1, 6, 0,	
		2, 1, 4, 0, 2, 7, 4, 1, 5, 3, 8, 3, 2, 6, 9, 8,	2, 5, 7, 8, 0, 2, 2, 5, 8,	2, 5, 7, 8, 0, 2, 2, 5, 8,	
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		9, 7, 5, 0, 8, 5, 8, 9, 3, 8, 9, 1, 8, 9, 3, 9,	5, 6, 9, 1, 1, 1, 4, 0, 8,	5, 6, 9, 1, 1, 1, 4, 0, 8,	
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'	1.47 PIVI Singly L	Inked List (CC06). Attempt review	DK-LIVIS
	Test	Expected	Got
	2, 8, 0, 6, 1, 0, 7, 5, 9, 6, 9, 6, 2, 9, 8, 6,	2, 4, 3, 8, 3, 0, 2, 6, 8,	2, 4, 3, 8, 3, 0, 2, 6, 8,
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	2, 5, 1, 9, 8, 4, 4, 9, 9, 0, 5, 9, 0, 4, 1, 3,	0, 5, 9, 0, 7, 4, 9, 7, 5,	0, 5, 9, 0, 7, 4, 9, 7, 5,
	8, 2, 1, 4, 1, 4, 8, 9, 2, 2, 9, 1, 1, 7, 3, 9,	3, 2, 3, 6, 2, 8, 3, 9, 6,	3, 2, 3, 6, 2, 8, 3, 9, 6,
	6, 2, 6, 3, 8, 9, 0, 2, 7, 9, 5, 6, 2, 0, 4, 0,	8, 4, 8, 6, 8, 7, 4, 3, 3,	8, 4, 8, 6, 8, 7, 4, 3, 3,
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	8, 1, 4, 1, 3, 1, 5, 7, 0, 5, 2, 7, 1, 6, 9, 6,	5, 2, 4, 7, 5, 5, 1, 3, 0,	5, 2, 4, 7, 5, 5, 1, 3, 0,
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	5, 8, 3, 7, 8, 0, 6, 5, 3, 5, 9, 6, 8, 6, 6, 0,	0, 5, 9, 0, 4, 1, 3, 8, 2,	0, 5, 9, 0, 4, 1, 3, 8, 2,
	6, 3, 8, 0, 3, 4, 9, 7, 0, 9, 0, 4, 6, 3, 6, 1,	1, 4, 1, 4, 8, 9, 2, 2, 9,	1, 4, 1, 4, 8, 9, 2, 2, 9,
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Test	Expected	Got
7, 9, 3, 7, 0, 0, 3, 8, 0, 7, 9, 6, 8, 7, 4, 0,	8, 9, 0, 2, 7, 9, 5, 6, 2,	8, 9, 0, 2, 7, 9, 5, 6, 2,
3, 0, 5, 8, 6, 4, 2, 0, 0, 8, 0, 7, 8, 0, 2, 7,	0, 4, 0, 4, 2, 7, 1, 4, 3,	0, 4, 0, 4, 2, 7, 1, 4, 3,
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9, 6, 3, 0, 2, 5, 2, 2, 6, 3, 6, 0, 3, 4, 3, 9,	6, 5, 4, 8, 4, 4, 4, 3, 1,	6, 5, 4, 8, 4, 4, 4, 3, 1,
0, 6, 4, 3, 0, 3, 5, 8, 9, 5, 6, 5, 1, 7, 0, 1,	6, 5, 7, 5, 3, 4, 2, 4, 9,	6, 5, 7, 5, 3, 4, 2, 4, 9,
0, 9, 7, 9, 5, 0, 3, 4, 3, 4, 1, 1, 2, 0, 1, 0,	1, 1, 8, 4, 7, 4, 0, 6, 2,	1, 1, 8, 4, 7, 4, 0, 6, 2,
7, 7, 5, 0, 3, 3, 7, 1, 0, 7, 4, 2, 5, 4, 9, 4,	2, 0, 0, 2, 8, 6, 7, 5, 6,	2, 0, 0, 2, 8, 6, 7, 5, 6,
3, 4, 9, 3, 6, 8, 6, 3, 5, 9, 5, 9, 6, 9, 7, 2,	0, 4, 6, 1, 2, 1, 3, 7, 4,	0, 4, 6, 1, 2, 1, 3, 7, 4,
1, 6, 5, 4, 5, 3, 8, 3, 2, 0, 1, 8, 1, 9, 4, 6,	5, 3, 8, 3, 0, 3, 0, 5, 2,	5, 3, 8, 3, 0, 3, 0, 5, 2,
2, 3, 6, 5, 8, 3, 5, 8, 3, 3, 1, 9, 0, 9, 1, 6,	0, 9, 7, 3, 0, 5, 1, 8, 5,	0, 9, 7, 3, 0, 5, 1, 8, 5,
1, 9, 2, 6, 4, 7, 6, 0, 2, 8, 0, 8, 7, 7, 4, 8,	2, 9, 7, 4, 0, 9, 8, 5, 1,	2, 9, 7, 4, 0, 9, 8, 5, 1,
4, 8, 5, 4, 4, 5, 9, 6, 3, 6, 1, 0, 7, 2, 8, 2, 9, 8, 7, 9, 1, 8, 4, 7, 5, 2, 1, 4, 4, 3, 2, 3,	0, 8, 1, 8, 1, 3, 9, 1, 8, 7, 2, 6, 0, 9, 0, 5, 2, 3,	0, 8, 1, 8, 1, 3, 9, 1, 8, 7, 2, 6, 0, 9, 0, 5, 2, 3,
8, 3, 0, 5, 1, 2, 4, 2, 1, 3, 9, 9, 8, 2, 2, 5,	6, 0, 6, 0, 6, 6, 8, 7, 3,	6, 0, 6, 0, 6, 6, 8, 7, 3,
6, 2, 4, 1, 7, 0, 1, 6, 1, 0, 9, 4, 7, 9, 9, 8,	6, 3, 8, 3, 0, 4, 6, 5, 6,	6, 3, 8, 3, 0, 4, 6, 5, 6,
8, 8, 9, 3, 5, 7, 7, 2, 5, 0, 3, 9, 9, 4, 2, 5,	4, 3, 4, 7, 8, 7, 8, 4,	4, 3, 4, 7, 8, 7, 8, 4,
0, 9, 9, 9, 5, 0, 7, 9, 2, 2, 6, 3, 4, 6, 1, 6,	snip 1, 9, 1, 5, 1,	snip 1, 9, 1, 5, 1,
9, 6, 6, 2, 0, 8, 0, 7, 0, 7, 8, 7, 0, 2, 8, 6,	5, 0, 2, 9, 5, 1, 7, 0, 2,	5, 0, 2, 9, 5, 1, 7, 0, 2,
0, 4, 8, 6, 7, 8, 0, 2, 5, 0, 2, 5, 4, 4, 8, 2,	5, 3, 7, 9, 9, 6, 9, 5, 9,	5, 3, 7, 9, 9, 6, 9, 5, 9,
7, 9, 8, 1, 2, 4, 5, 4, 5, 6, 7, 6, 2, 0, 2, 5,	3, 7, 3, 0, 4, 5, 7, 7, 0,	3, 7, 3, 0, 4, 5, 7, 7, 0,
9, 5, 0, 5, 4, 3, 6, 2, 5, 0, 4, 5, 9, 7, 4, 4,	9, 4, 2, 2, 3, 5, 3, 5, 7,	9, 4, 2, 2, 3, 5, 3, 5, 7,
5, 0, 3, 7, 5, 4, 5, 0, 0, 5, 2, 0, 8, 0, 3, 5,	1, 0, 1, 1, 2, 6, 9, 5, 2,	1, 0, 1, 1, 2, 6, 9, 5, 2,
2, 9, 8, 5, 6, 3, 0, 3, 5, 6, 2, 2, 8, 1, 4, 9,	0, 6, 3, 5, 4, 3, 0, 6, 1,	0, 6, 3, 5, 4, 3, 0, 6, 1,
8, 8, 7, 7, 1, 4, 8, 2, 1, 3, 9, 8, 8, 0, 5, 0,	4, 8, 7, 5, 3, 6, 1, 0, 4,	4, 8, 7, 5, 3, 6, 1, 0, 4,
5, 2, 4, 0, 4, 6, 0, 8, 5, 7, 2, 9, 6, 4, 2, 0,	8, 7, 5, 1, 4, 6, 1, 0, 0,	8, 7, 5, 1, 4, 6, 1, 0, 0,
0, 7, 7, 1, 2, 4, 4, 3, 6, 2, 0, 2, 9, 8, 0, 8,	2, 1, 9, 2, 3, 3, 5, 6, 8,	2, 1, 9, 2, 3, 3, 5, 6, 8,
0, 2, 2, 5, 3, 2, 2, 8, 5, 7, 5, 5, 7, 4, 2, 4,	0, 3, 1, 1, 0, 6, 8, 9, 4,	0, 3, 1, 1, 0, 6, 8, 9, 4,
2, 9, 4, 1, 4, 1, 8, 8, 4, 1, 0, 3, 4, 0, 5, 8,	8, 0, 5, 1, 0, 4, 0, 5, 6,	8, 0, 5, 1, 0, 4, 0, 5, 6,
8, 4, 4, 2, 7, 0, 3, 1, 3, 3, 1, 4, 4, 1, 7, 4,	3, 6, 6, 1, 3, 5, 0, 0, 7,	3, 6, 6, 1, 3, 5, 0, 0, 7,
9, 3, 2, 3, 7, 0, 8, 1, 9, 7, 2, 1, 9, 3, 7, 6,	9, 1, 7, 9, 1, 7, 3, 3, 4,	9, 1, 7, 9, 1, 7, 3, 3, 4,
0, 5, 1, 4};	0, 2, 5, 0, 8, 7, 3, 9, 4,	0, 2, 5, 0, 8, 7, 3, 9, 4,
int k = 5555;	9, 7, 7, 9, 0, 2, 1, 6, 8,	9, 7, 7, 9, 0, 2, 1, 6, 8,
LLNode* head = LLNode::createWithIterators(arr,	2, 0, 7, 9, 9, 4, 2, 2, 8,	2, 0, 7, 9, 9, 4, 2, 2, 8,
<pre>arr + sizeof(arr) / sizeof(int));</pre>	8, 1, 7, 9, 7, 8, 7, 7, 6,	8, 1, 7, 9, 7, 8, 7, 7, 6,
LLNode::printList(head);	7, 2, 9, 4, 6, 2, 5, 1, 7,	7, 2, 9, 4, 6, 2, 5, 1, 7,
cout << "\n";	3, 3, 1, 7, 5, 4, 9, 9, 4,	3, 3, 1, 7, 5, 4, 9, 9, 4,
<pre>LLNode* newhead = rotateLinkedList(head, k);</pre>	0, 4, 7, 4, 3, 5, 2, 9, 7,	0, 4, 7, 4, 3, 5, 2, 9, 7,
LLNode::printList(newhead);	5, 6, 9, 2, 0, 1, 9, 7, 2,	5, 6, 9, 2, 0, 1, 9, 7, 2,
	5, 0, 6, 2, 6, 4, 1, 5, 1,	5, 0, 6, 2, 6, 4, 1, 5, 1,
	7, 9, 0, 5, 2, 4, 1, 3, 9,	7, 9, 0, 5, 2, 4, 1, 3, 9,
	7, 2, 4, 0, 9, 2, 6, 6, 2,	7, 2, 4, 0, 9, 2, 6, 6, 2,
	9, 1, 1, 3, 4, 4, 9, 0, 5, 1, 7, 7, 4, 5, 0, 5, 4, 7,	9, 1, 1, 3, 4, 4, 9, 0, 5, 1, 7, 7, 4, 5, 0, 5, 4, 7,
	1, 9, 1, 0, 5, 6, 3, 4, 2,	1, 9, 1, 0, 5, 6, 3, 4, 2,
	0, 1, 6, 6, 5, 4, 0, 0, 7,	0, 1, 6, 6, 5, 4, 0, 0, 7,
	8, 3, 4, 3, 7, 1, 3, 1, 9,	8, 3, 4, 3, 7, 1, 3, 1, 9,
	0, 4, 3, 5, 0, 9, 7, 9, 3,	0, 4, 3, 5, 0, 9, 7, 9, 3,
	0, 2, 9, 3, 0, 8, 0, 0, 5,	0, 2, 9, 3, 0, 8, 0, 0, 5,
	2, 8, 5, 8, 0, 6, 3, 8, 7,	2, 8, 5, 8, 0, 6, 3, 8, 7,
	3, 6, 2, 3, 7, 8, 5, 5, 4,	3, 6, 2, 3, 7, 8, 5, 5, 4,
	9, 5, 5, 3, 7, 7, 0, 0, 0,	9, 5, 5, 3, 7, 7, 0, 0, 0,
	0, 5, 4, 6, 1, 2, 3, 2, 2,	0, 5, 4, 6, 1, 2, 3, 2, 2,
	9, 1, 1, 5, 9, 8, 8, 9, 9,	9, 1, 1, 5, 9, 8, 8, 9, 9,
	4, 4, 1, 8, 2, 9, 9, 0, 8,	4, 4, 1, 8, 2, 9, 9, 0, 8,
	, , , -, , , , -, -,	
	0, 2, 2, 3, 9, 3, 3, 0, 1,	0, 2, 2, 3, 9, 3, 3, 0, 1,
		4, 7, 6, 6, 0, 6, 4, 1, 2,
	0, 2, 2, 3, 9, 3, 3, 0, 1,	
	0, 2, 2, 3, 9, 3, 3, 0, 1, 4, 7, 6, 6, 0, 6, 4, 1, 2,	4, 7, 6, 6, 0, 6, 4, 1, 2,
	0, 2, 2, 3, 9, 3, 3, 0, 1, 4, 7, 6, 6, 0, 6, 4, 1, 2, 8, 7, 9, 2, 7, 0, 7, 9, 8,	4, 7, 6, 6, 0, 6, 4, 1, 2, 8, 7, 9, 2, 7, 0, 7, 9, 8,

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

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

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

```
Question 14
Correct
Mark 1.00 out of 1.00
```

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

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

- In this class; head, tail and size are the pointers of the first element, the last element and size of linked list.
- Request: Implement function 'replace(LinkedList* linked_list, int low, int high)' (low <= 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
LinkedList* 11 = new LinkedList(); LinkedList* 12 = new LinkedList(); 11->add(10); 11->add(20); 11->add(30); 11->add(40); 11->add(50); 12->add(55); 12->add(45); 12->add(42); 11->replace(12, -1, 2);	[55,45,42,40,50]
cout << 11->toString() << "\n";	

Answer: (penalty regime: 0 %)

Reset answer

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

	Test	Expected	Got	
~	LinkedList* 11 = new LinkedList(); LinkedList* 12 = new LinkedList(); 11->add(10); 11->add(20); 11->add(30); 11->add(40); 11->add(50); 12->add(55); 12->add(45); 12->add(42); 11->replace(12, -1, 2); cout << 11->toString() << "\n";	[55,45,42,40,50]	[55,45,42,40,50]	~

Passed all tests! 🗸

Correct)
Marks for this submission: 1.00/1.00.