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	Tesnado, Johncen Jekk P.	Section:	1CSC

```
Code:
 ackage src;
     head = null; tail = null;
     head = null; tail = null;
     System.out.println("linked list is cleared");
     if (isEmpty()) {
         System.out.println("info not in doubly linked list");
     while (current != null) {
         if (current.info.equals(info)) {
             System.out.println("Found on pointer " + position);
             return position;
         current = current.next;
     System.out.println("info not in doubly linked list");
     Item newItem = new Item(info);
     if (isEmpty()) {
```

```
newItem.next = head;
    head = newItem;
System.out.println(info + " is added to the head");
Item newItem = new Item(info);
if (isEmpty()) {
   newItem.prev = tail;
System.out.println(info + " is added to the tail");
Item current = head;
while (current != null) {
    if (current.info.equals(info)) {
       return current;
   current = current.next;
if (isEmpty()) {
   System.out.println("info not in doubly linked list");
Item targetItem = getItemWithInfo(targetInfo);
if (targetItem == null) {
   System.out.println("info not in doubly linked list");
if (targetItem == head) {
   newItem.next = head;
   head.prev = newItem;
   head = newItem;
    newItem.prev = targetItem.prev;
    newItem.next = targetItem;
    targetItem.prev.next = newItem;
```

```
targetItem.prev = newItem;
System.out.println(newInfo + " is added before info " + targetInfo);
if (isEmpty()) {
   System.out.println("info not in doubly linked list");
Item targetItem = getItemWithInfo(targetInfo);
if (targetItem == null) {
   System.out.println("info not in doubly linked list");
Item newItem = new Item(newInfo);
if (targetItem == tail) {
   newItem.prev = tail;
   newItem.next = targetItem.next;
   newItem.prev = targetItem;
   targetItem.next.prev = newItem;
   targetItem.next = newItem;
System.out.println(newInfo + " is added after info " + targetInfo);
if (isEmpty()) {
   System.out.println("info not in doubly linked list");
if (head == tail) {
   tail = null;
System.out.println(deletedInfo + " is deleted");
if (isEmpty()) {
   System.out.println("info not in doubly linked list");
```

```
if (head == tail) {
   tail = null;
System.out.println(deletedInfo + " is deleted");
if (isEmpty()) {
   System.out.println("info not in doubly linked list");
if (head.info.equals(info)) {
   deleteFromHead();
if (tail.info.equals(info)) {
   deleteFromTail();
Item current = head.next;
while (current != null && current != tail) {
    if (current.info.equals(info)) {
       current.prev.next = current.next;
        current.next.prev = current.prev;
       System.out.println(info + " is deleted");
    current = current.next;
System.out.println("info not in doubly linked list");
if (isEmpty()) {
   System.out.println("linked list is empty");
Item current = head;
String result = concatListItems();
System.out.println(result);
```

```
if (isEmpty()) {
   String[] items = new String[countItems()];
   Item current = head;
   while (current != null) {
       items[index++] = current.info;
       current = current.next;
   return String.join(" ", items);
   Item current = head;
   while (current != null) {
      current = current.next;
  return count;
   return concatListItems();
public static void main(String[] args) {
   Scanner scanner = new Scanner(System.in);
   System.out.println("OPERATIONS LIST: "
       System.out.println();
       System.out.print("Input operation: ");
       String line = scanner.nextLine().trim();
       String[] parts = line.split("\\s+");
       String operation = parts[0].toLowerCase();
       switch (operation) {
              list.newList();
               list.clear();
               if (parts.length > 1) {
                  list.find(parts[1]);
                   System.out.println("Please provide an info to find");
```

```
if (list.isEmpty()) {
                     System.out.println("doubly linked list is empty");
                     System.out.println("doubly linked list is not empty");
                 if (parts.length > 1) {
                     list.addToHead(parts[1]);
                     System.out.println("Please provide an info to add");
                 if (parts.length > 1) {
                     list.addToTail(parts[1]);
                     System.out.println("Please provide an info to add");
                 if (parts.length > 2) {
                     list.addBeforeInfo(parts[1], parts[2]);
                     System.out.println("Please provide target info and new
info");
                 if (parts.length > 2) {
                     list.addAfterInfo(parts[1], parts[2]);
                     System.out.println("Please provide target info and new
info");
                 list.deleteFromHead();
                 list.deleteFromTail();
                 if (parts.length > 1) {
                     list.deleteInfo(parts[1]);
                     System.out.println("Please provide an info to delete");
                 list.displayList();
                 System.out.println("Invalid operation. Please try again.");
```

```
}
}
}
```

Scoring Sheet:

Lab Exercise 4.2: Linked List							Date: 03 04 W25	
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