

CSCE 221 Cover Page

Programming Assignment #3 Pt. 1

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Please list all sources in the table below including web pages which you used to solve or implement the current homework. If you fail to cite sources you can get a lower number of points or even zero, read more in the Aggie Honor System Office <http://aggiehonor.tamu.edu/>

- **Complexity Analysis**

SimpleDoublyLinkedList

```
Node * Node :: insert_before(intd) // O(1)
Node * Node :: insert_after(intd) // O(1)
void Node :: delete_before() // O(1)
void Node :: delete_after() // O(1)
void display(Node * header, Node * trailer) // O(n)
```

DoublyLinkedList

```
DoublyLinkedList :: DoublyLinkedList(const DoublyLinkedList& dll) // O(n)
DoublyLinkedList DoublyLinkedList :: operator = (const DoublyLinkedList& dll) // O(n)
void DoublyLinkedList :: insertFirst(int newobj) // O(1)
void DoublyLinkedList :: insertLast(int newobj) // O(1)
int DoublyLinkedList :: removeFirst() // O(1)
int DoublyLinkedList :: removeLast() // O(1)
DoublyLinkedList :: DoublyLinkedList() // O(n)
int DoublyLinkedList :: first() const // O(1)
int DoublyLinkedList :: last() const // O(1)
int DoublyLinkedListLength(DoublyLinkedList& dll) // O(n)
ostream& operator << (ostream& out, const DoublyLinkedList& dll) // O(n)
```

- Template Arguments are the same as the Doubly Linked List Arguments

I certify that I have listed all the sources that I used to develop the solutions/code to the submitted work.

“On my honor as an Aggie, I have neither given nor received any unauthorized help on this academic work.”

Your Name (signature) Alexander Kaiser Date 10/6/16