CS111: Assignment 10

For this assignment you will complete the implement a generic class, DoublyLinkedList, that represents a Doubly Linked List ADT. You will begin with a partial implementation of a doubly linked list. You need to implement only the following methods:

- **add(E value) :**   adds a new element at the end of the list
- **clear() :** empty the list
- **get(int position) :** return the value at the specified index
- **contains(E value)** : returns true if the object "value" is part of the list
- **indexOf(E value) :**   returns the index number of the node containing the object "value".
- **isEmpty() :** returns true if the list is empty
- **remove(int index) :** deletes and RETURNS the value at the given index
- **displayBackward() :**   prints the contents of the list backwards from tail to head

What to submit:
1. DoublyLinkedList.java