Shenabeth Jenkins

Professor Alexander

CMSC 204

3/3/20

**Assignment 3 Design**

**SortedDoubleLinkedList UML Diagram**

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| SortedDoubleLinkedList |
|  |
| + SortedDoubleLinkedList(comparator2: Comparator)  + add(data: T): SortedDoubleLinkedList<T>  + addToEnd(data:T): BasicDoubleLinkedList<T>  + addToFront(data:T): BasicDoubleLinkedList<T>  + iterator(): ListIterator  + remove(comparator: Comparator): SortedDoubleLinkedList<T> |

**BasicDoubleLinkedList UML Diagram**

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| --- |
| BasicDoubleLinkedList |
|  |
| + BasicDoubleLinkedList()  + getSize  + addToEnd(data:T): BasicDoubleLinkedList<T>  + addToFront(data:T): BasicDoubleLinkedList<T>  + getFirst()  + getLast()  + iterator(): ListIterator  + remove(targetData: T, comparator: Comparator): BasicDoubleLinkedList<T>  + retrieveFirstElement()  + retrieveLastElement()  + toArrayList() |