Assignment 3
UML

Shahdad Parsi

class
Basic Double Linked List <T>

size : int
head : Node
tail : Node
- getSize() : int
- addToEnd (data : T) : Basic Double Linked List <T>
- addToFront (data : T) : Basic Double Linked List <T>
- getFirst() : T
- getLast() : T
- isEmpty() : boolean
- iterator() : List Iterator <T>
+ remove (targetData : T , comparator : Comparator <T>)
- retrieve First Element () : T
- retrieve Last Element () : T
- toArrayList () : ArrayList <T>

class
Node *(inner class)*

previous : Node
next : Node
data : T
Node ()
Node (data : T)

class
Double Linked List Iterator *(inner class)*

+ previous 2 : Node
+ current 2 : Node
- Double Linked List Iterator
- hasNext () : boolean
- next () : T
- has Previous () : boolean
- previous () : T
- next Index () : int
- Previous Index () : int
- remove () : void
- Set (t : T) : void
- add (t : T) : void

class
Sorted Double Linked List <T>

+ comparator : Comparator
- Sorted Double Linked List (Comparator : Comparator)
- add (data : T) : Sorted Double Linked List <T>
- addToEnd (data : T) : Sorted Double Linked List <T>
- addToFront (data : T) : Basic Double Linked List <T>
- iterator () : List Iterator <T>
+ remove (data : T , comparator : Comparator <T>) : Sorted Double Linked List <T>