

```
124  
125 public void printSortedList() {  
126     System.out.println("\nCurrent Sorted List:");
```

Part1 (2) [Java Application] C:\Users\chairt\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe (Apr 2, 2024, 8:50:44 PM) [pid: 50728]

Choose an option:

1. Add employee
2. Remove employee
3. Check if employee exists
4. Print the updated list
5. Exit

Enter your choice: 1

Enter the ID to add: 8

Enter the name to add: xxx

Added employee with ID 8 and NAME xxx

Choose an option:

1. Add employee
2. Remove employee
3. Check if employee exists
4. Print the updated list
5. Exit

Enter your choice: 2

Enter the ID to remove: 5

Removed employee with ID 5

Choose an option:

1. Add employee
2. Remove employee
3. Check if employee exists
4. Print the updated list
5. Exit

Enter your choice: 4

Current Sorted List:

```
3 Aditi  
8 xxx  
11 Mahika  
13 Chandana  
19 Sandeep  
22 Vyshnavi  
23 Vijaya  
24 Murali  
29 Jaideep  
33 Ananya  
34 Siri  
39 Riya  
41 Vivek  
44 Aarav  
46 Rohan
```

```
Lab8  
  Employee  
    id : int  
    name : String  
    Employee(int, String)  
  Node  
    data : Employee  
    next : Node  
    Node(Employee)  
  LinkedList  
  SortedLinkedList  
    add(Employee) : void  
    remove(int) : void  
    contains(int) : boolean  
    printSortedList() : void  
  Part1  
    main(String[]) : void
```

Project Explorer X

- Lab8
- src
- Lab8
- CircularLinkedList.java
- CircularLinkedList
- Employee
- Part1.java
- module-info.java

```
1 package Lab8;
2
3 import java.io.BufferedReader;
4
5
6
7 class Employee {
8     int id;
9     String name;
10
11 public Employee(int id, String name) {
12     this.id = id;
13     this.name = name;
14 }
15
16
17 public class CircularLinkedList {
18     class Node {
19         Employee data;
20         Node next;
21
22     Node(Employee data) {
23         this.data = data;
```

Outline X Coverage X

- Lab8
- Employee
 - id : int
 - name : String
 - Employee(int, String)
- CircularLinkedList
 - Node
 - data : Employee
 - next : Node
 - Node(Employee)
 - head : Node
 - insert(Employee) : void
 - display() : void
 - delete(int) : void
 - main(String[]) : void

<terminated> CircularLinkedList (1) [Java Application] C:\Users\chait_p2\pools\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe (Apr 2, 2024, 9:17:45 PM -

Elements after inserting:

5 Saanvi
3 Aditi
41 Vivek
39 Riya
44 Aarav
93 Priya
63 Ashish
24 Murali

Elements after deleting:

5 Saanvi
41 Vivek
39 Riya
44 Aarav
93 Priya
63 Ashish
24 Murali

Project Explorer

DoublyLinkedList

- JRE System Library [JavaSE-17]
- src
 - Part3
 - DoublyLinkedList.java

```
160         int idToRemove = scanner.nextInt();
161         scanner.nextLine(); // Consume the newline character
162         if (dll.remove(idToRemove)) {
```

Problems Javadoc Declaration Console

learnScanner [Java Application] C:\Users\chait\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe (Apr 2, 2024, 9:15:33 PM) [pid: 23912]

```
1. Check if an element is present?
2. Add an element.
3. Remove an element.
4. Print the updated list.
5. Exit.
```

Enter your choice: 4

Current Doubly Linked List:

```
3 Aditi
41 Vivek
39 Riya
44 Aarav
93 Priya
63 Ashish
24 Murali
97 Sanjana
29 Jaideep
19 Sandeep
22 Vyshnavi
34 Siri
46 Rohan
75 Ishita
81 Deva
13 Chandana
33 Ananya
61 Arya
78 Diya
67 Akash
23 Vijaya
69 Kavya
53 Srikar
11 Mahika
89 Mira
66 Mahesh
90 Priya
55 Shreya
62 Nikitha
8 xxx
```

Choose an option:

```
1. Check if an element is present?
2. Add an element.
3. Remove an element.
4. Print the updated list.
5. Exit.
```

Enter your choice:

Outline Coverage

Part3

- Node
 - id : int
 - name : String
 - next : Node
 - prev : Node
 - Node(int, String)
- DoublyLinkedList
 - head : Node
 - tail : Node
 - DoublyLinkedList()
 - add(int, String) : void
 - remove(int) : boolean
 - contains(int) : boolean
 - printList() : void
- Main
 - main(String[]) : void