

Program:

```
public class Node {
    int data;
    Node prev;
    Node next;

    public Node(int data) {
        this.data = data;
        this.prev = null;
        this.next = null;
    }
}

public class DoublyLinkedList {
    Node head;

    public DoublyLinkedList() {
        this.head = null;
    }

    public void insert(int data) {
        Node newNode = new Node(data);
        if (head == null) {
            head = newNode;
        } else {
            Node current = head;
            while (current.next != null) {
                current = current.next;
            }
            current.next = newNode;
            newNode.prev = current;
        }
    }

    public void delete(int data) {
        if (head == null) {
            return;
        }
        if (head.data == data) {
            head = head.next;
            if (head != null) {
                head.prev = null;
            }
        }
    }
}
```

```

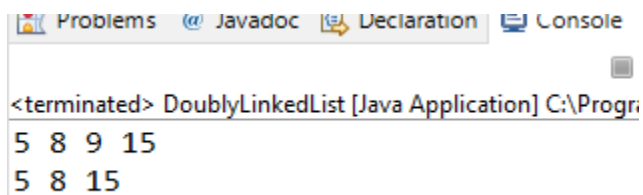
        }
        return;
    }
    Node current = head;
    while (current != null && current.data != data) {
        current = current.next;
    }
    if (current == null) {
        return;
    }
    if (current.next != null) {
        current.next.prev = current.prev;
    }
    current.prev.next = current.next;
}

public void display()
{
    Node current = head;
    while (current != null) {
        System.out.print(current.data + " ");
        current = current.next;
    }
    System.out.println();
}

public static void main(String[] args)
{
    DoublyLinkedList d = new DoublyLinkedList();
    d.insert(5);
    d.insert(8);
    d.insert(9);
    d.insert(15);
    d.display();
    d.delete(9);
    d.display();
}

```

Output:



```

<terminated> DoublyLinkedList [Java Application] C:\Progr
5 8 9 15
5 8 15

```