Our Solution(s)

Solution 1

30

31

32

33

if ll.Tail == nil {

11.setHead(node)

return

Run Code

Your Solutions

```
Run Code
```

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
3 package main
5 type Node struct {
    Value int
    Prev, Next *Node
7
8 }
9
10 type DoublyLinkedList struct {
11
    Head, Tail *Node
12 }
13
14 func NewDoublyLinkedList() *DoublyLinkedList {
    return &DoublyLinkedList{}
16 }
17
18 // O(1) time | O(1) space
19 func (11 *DoublyLinkedList) SetHead(node *Node) {
     if 11.Head == nil {
       11.Head = node
21
       ll.Tail = node
       return
24
25
     11.insertBefore(11.Head, node)
26 }
27
28 // O(1) time | O(1) space
29 func (11 *DoublyLinkedList) SetTail(node *Node) {
```

```
Solution 1 Solution 2 Solution 3
```

```
2 package main
 4 type Node struct {
    Value int
 6 Prev, Next *Node
7 }
9 type DoublyLinkedList struct {
   Head, Tail *Node
10
11 }
12
13 func NewDoublyLinkedList() *DoublyLinkedList {
    // Write your code here.
14
     return nil
16 }
17
18 func (ll *DoublyLinkedList) SetHead(node *Node) {
19
    // Write your code here.
20 }
21
   func (11 *DoublyLinkedList) SetTail(node *Node) {
23
    // Write your code here.
24 }
26 func (ll *DoublyLinkedList) InsertBefore(node, nodeToInsert *Node) {
27
     // Write your code here.
28 }
30 func (ll *DoublyLinkedList) InsertAfter(node, nodeToInsert *Node) {
31
     // Write your code here.
32
33
```

1 // Feel free to add methods and fields to the struct definitions.

Run or submit code when you're ready.