
Started on Thursday, 15 May 2025, 9:42 AM

State Finished

Completed on Thursday, 15 May 2025, 11:33 AM

Time taken 1 hour 50 mins

Grade **80.00** out of 100.00

Question 1

Correct

Mark 20.00 out of 20.00

Type a python function to insert element in the doubly linked list in forward and reverse direction.

Answer: (penalty regime: 0 %)

Reset answer

```
1 class Node:
2     def __init__(self, data):
3         self.data = data
4         self.prev = None
5         self.next = None
6
7 class DoublyLinkedList:
8     def __init__(self):
9         self.head = None
10
11     def insert_front(self, data):
12         new_node = Node(data)
13         new_node.next = self.head
14         if self.head is not None:
15             self.head.prev = new_node
16         self.head = new_node
17
18     def traverse_forward(self):
19         elements = []
20         temp = self.head
21         while temp:
22             elements.append(temp.data)
```

	Expected	Got	
✓	Traversal in forward direction 5 3 1 7 Traversal in reverse direction 7 1 3 5	Traversal in forward direction 5 3 1 7 Traversal in reverse direction 7 1 3 5	✓

Passed all tests! ✓

Correct

Marks for this submission: 20.00/20.00.

Question 2

Correct

Mark 20.00 out of 20.00

Define a function to delete the last element in the given linked list.

Answer: (penalty regime: 0 %)

Reset answer

```
1 class Node:
2     def __init__(self, data):
3         self.data = data
4         self.next = None
5
6 class delete_last:
7     def __init__(self):
8         self.head = None
9
10    def removeLastNode(self):
11        if self.head.next == None:
12            self.head = None
13        else:
14            temp = self.head
15            while temp.next.next!=None:
16                temp = temp.next
17            temp1 = temp.next
18            temp.next = None
19            temp1 = None
20
21    def push(self, data):
22        if self.head is None:
```

	Input	Expected	Got	
✓	5 10 20 30 40 50	Enter the number of elements to push: 10 20 30 40	Enter the number of elements to push: 10 20 30 40	✓

Passed all tests! ✓

Correct

Marks for this submission: 20.00/20.00.

Question 3

Incorrect

Mark 0.00 out of 20.00

Write a python program to insert an element before the specified item in singly linked list.

Answer: (penalty regime: 0 %)

[Reset answer](#)

```
1 class Node:
2     def __init__(self, data):
3         self.data = data
4         self.next = None
5
6 class LinkedList:
7     def __init__(self):
8         self.head = None
9
10    def traverse_list(self):
11        if self.head is None:
12            print("List has no element")
13            return
14        else:
15            n = self.head
16            while n is not None:
17                print(n.data , " ")
18                n = n.next
19
20    def insert_at_start(self, data):
21        new_node = Node(data)
22        new_node.next = self.head
```

Syntax Error(s)

File "__tester__.python3", line 36

{{TYPE THE CODE}}

^

SyntaxError: invalid syntax

Incorrect

Marks for this submission: 0.00/20.00.

Question 4

Correct

Mark 20.00 out of 20.00

Write a python program to traverse the elements in forward and reverse direction in doubly linked list.

Answer: (penalty regime: 0 %)

Reset answer

```

1 class Node:
2     def __init__(self, data):
3         self.data = data
4         self.next = None
5         self.prev = None
6
7 class DoublyLinkedList:
8     def __init__(self):
9         self.head = None
10
11     def push(self, new_data):
12         new_node = Node(new_data)
13         new_node.next = self.head
14         if self.head is not None:
15             self.head.prev = new_node
16         self.head = new_node
17
18     def append(self, new_data):
19         new_node = Node(new_data)
20         if self.head is None:
21             self.head = new_node
22         return

```

	Input	Expected	Got	
✓	50 10 20 100	Insert the element to add at the end Insert the element to add at the beginning Insert the element to add at the beginning Insert the element to add at the end Created DLL is: Traversal in forward direction 20 10 50 100 Traversal in reverse direction 100 50 10 20	Insert the element to add at the end Insert the element to add at the beginning Insert the element to add at the beginning Insert the element to add at the end Created DLL is: Traversal in forward direction 20 10 50 100 Traversal in reverse direction 100 50 10 20	✓

Passed all tests! ✓

Correct

Marks for this submission: 20.00/20.00.

Question **5**

Correct

Mark 20.00 out of 20.00

Write a python program to find the smallest among three Integer Numbers

For example:

Input	Result
10 54 7	The Smallest of the three a= 10 b= 54 c= 7 is 7

Answer: (penalty regime: 0 %)

```

1 a = int(input())
2 b = int(input())
3 c = int(input())
4
5 smallest = min(a, b, c)
6
7 print(f"The Smallest of the three a= {a} b= {b} c= {c} is {smallest}")
8

```

	Input	Expected	Got	
✓	10 54 7	The Smallest of the three a= 10 b= 54 c= 7 is 7	The Smallest of the three a= 10 b= 54 c= 7 is 7	✓
✓	74 56 12	The Smallest of the three a= 74 b= 56 c= 12 is 12	The Smallest of the three a= 74 b= 56 c= 12 is 12	✓

Passed all tests! ✓

Correct

Marks for this submission: 20.00/20.00.